

62.73

Fleck's Seeds

1956
OUR 12TH YEAR

PENNSYLVANIA'S Only Complete
All-Wholesale House Catering Exclusively to Particular Florists and Nurserymen



PETUNIA, FIRE DANCE

See Page 22

Both were excellent in our trials last season. Don't fail to include Fire Dance and Paleface on your order

**Complete List of All PETUNIAS,
Pages 20 to 26**



PETUNIA, PALEFACE

See Page 25

RAYMOND A. FLECK, Inc.

STREET ROAD (Route 132) • Telephones { Elmwood 7-0132
ELmwood 7-0179 • SOUTHAMPTON, PA.

4 Miles from Pennsylvania Turnpike (Philadelphia Interchange) See Map Page 63



PETUNIA, COMANCHE

See Page 25



PETUNIA, SIOUX

See Page 25

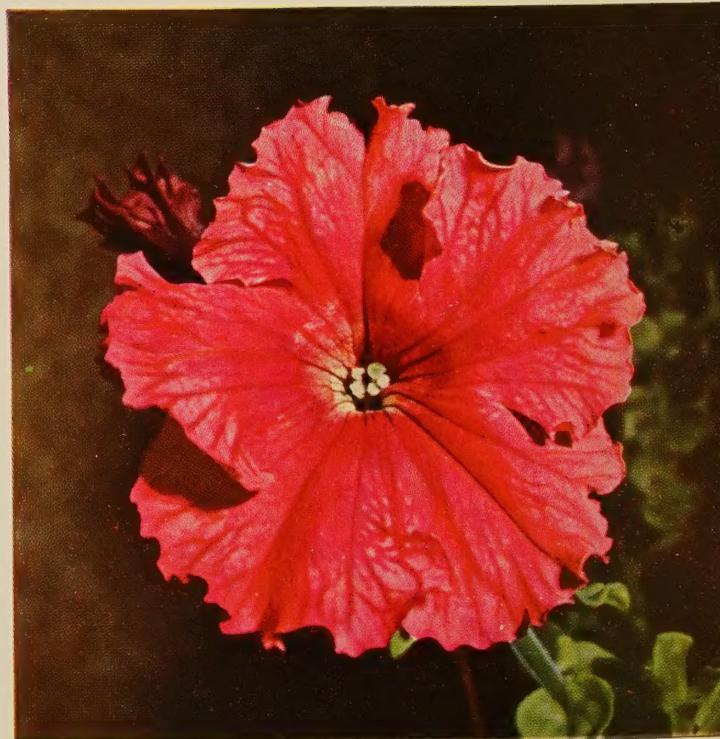
Fleck's Special Merit Items For Particular Florists and Nurserymen

Complete List of All PETUNIAS, Pages 20 to 26



PETUNIA, BALLERINA

See Page 22



PETUNIA, PRIMA DONNA

See Page 23

Fleck's Flower Seeds

FOR PARTICULAR FLORISTS

Seeds of Annuals and Greenhouse Plants

Arranged Alphabetically (Including New Varieties) for Easy Reference
PERENNIAL SEEDS BEGIN PAGE 36

ACROCLINIUM

NEW LARGEFLOWERED, DOUBLE HYBRIDS

24 inches

Excellent cut flower, free flowering.

8600 S Tr. pkt. $\frac{1}{4}$ oz. Oz.

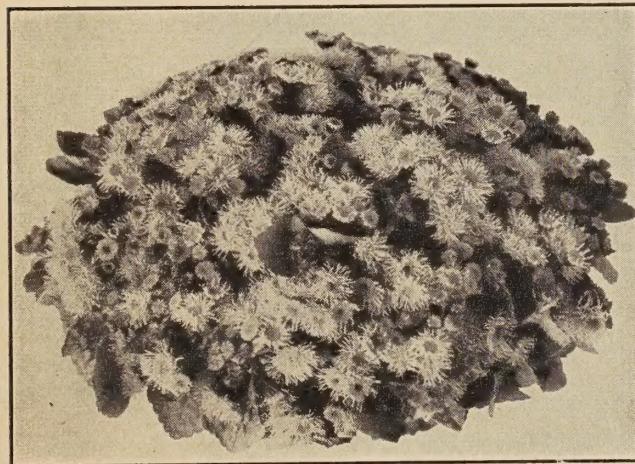
Mixed, Sensation Giants. Bright colored double Strawflowers for Spring cutting. When used for Winter bouquets, cut when buds begin to open..... \$0.20 \$0.35 \$1.00

AGATHAEA - Blue Daisy

27,000 S Tr. pkt. $\frac{1}{4}$ oz. Oz.

Coelestis. Exquisite, free flowering blue Marguerite Daisy. 30 in..... \$0.25 \$0.50 \$1.80
Seeds germinate irregularly and slowly

AGERATUM



Ageratum, Blue Cap

200,000 S

BLUE MINK. A new Tetra Ageratum with giant blooms on husky plants.

Tr. pkt. 75c., 1/16 oz. \$1.60, 1/8 oz. \$2.75, 1/4 oz. \$5.00

Tr. pkt. $\frac{1}{8}$ oz. $\frac{1}{4}$ oz. Oz.

Blue Ball Improved. Dwarf, compact, rich blue. 5-6 in..... \$0.35 \$0.70 \$1.30 \$4.25

Blue Cap. Compact, uniform, dwarf. 4 in..... .40 .70 1.15 3.50

Fairy Pink. Rose pink salmon flowers. Dwarf, compact. 4-6 in..... .45 1.00 1.80 6.00

Golden (Lonas Inodora). Free blooming, golden yellow. 12 in.... 1/16 oz. 75c. .40 1.50 2.70

Rooted Cuttings Available—See Plant Section

ALYSSUM



Alyssum,
Violet
Queen

Fragrant. Does well even in poor soil.

90,000 S Tr. pkt. $\frac{1}{4}$ oz. Oz. $\frac{1}{4}$ lb.

Carpet of Snow. White (Bouquet). 2 in. (snow cloth)..... \$0.20 \$0.30 \$0.90 \$2.75

Royal Carpet (New). Distinct purple; compact, dwarf. A great improvement on Violet Queen; spreads to 10 in. or more..... .40 1.00 3.95

Sweet (Maritimum). Trailing. 10 in. .20 .30 1.00 3.00

Violet Queen. Dwarf compact, rich deep shades of Violet. 5 to 8 in. .25 .50 1.25 4.00

PERENNIAL ALYSSUM—Listed page 36.



Amaranthus



Anchusa

AMARANTHUS

28,000 S Tr. pkt. $\frac{1}{4}$ oz. Oz.

Crimson Pygmy. 8 in. Nice for combination boxes..... \$0.25 \$0.40 \$1.20

Molten Fire (Summer Poinsettia). Variegated deep red foliage; plants do best when not transplanted. Prefer dry, open locations. Select strain. 4 ft..... .25 .55 1.70

Tricolor splendens (Joseph's-coat). Beautiful variegated foliage. 3 ft..... .25 .45 1.35

ANCHUSA (Annual)

1100 S Tr. pkt. $\frac{1}{4}$ oz. Oz.

Blue Bird. Compact, very attractive. Deep Forget-Me-Not blue flowers. 18-24 in..... \$0.30 \$0.65 \$1.75

PERENNIAL ANCHUSA—Listed on page 36.

Antirrhinum

ALL THE BEST—Greenhouse Forcing "SNAPS"

Originator's Packets

HYBRID VARIETIES

For best results, do not pinch Hybrid varieties until after benching, and shift before pot bound. Hybrid varieties are best for early sowings for maturity late September to February.

WHITE

Pkt.

Apollo (Yoder). Ivory, larger flowered and more vigorous than Margaret.....	\$3.50
Citation (Yoder Bros.) Earlier than Margaret. Vigorous. Ruffled, compact floret spacing on long spikes..	3.50
Jet Pilot (Yoder Bros.). Medium early Paperwhite. Long spikes.....	3.50
Maryland White (Winkler). Early paperwhite.....	3.50
Meine's Hybrid White . Jumbo florets, same shade as Margaret.....	3.50
ROCKWOOD'S HYBRID WHITE, NO. 5	
A fine white for Fall and early Winter blooming, flowers are large and well formed, stems wiry and heavy. Season—late September to June.	\$3.50
Spartan White (Weddle).....	3.00

PINK AND ROSE SHADES

Anne Marie (J. S. Yoder). Clear medium pink, midway between Christina and Libby. Heavy stiff stems.....	\$3.50
Christina (Yoder Bros.). New hybrid. Lively medium pink.....	3.50
Christmas Cheer (Windmiller). Beautiful bright pink. Best for December cutting; comes back for fine second crop.....	3.00
Kathleen (Hoffman). Light pink.....	3.00
Mary Ellen (J. S. Yoder). Hybrid early; light rose pink.	2.50
Maryland Pink (Winkler). Improved, early, light pastel pink.....	3.50
Rockwood's Early Hybrid Pink . Pastel pink. One of the best early and All-Season varieties. Produces good flowers from September to June.....	3.50
Rockwood's Hybrid Pink, No. 2. Early light pink with salmon tinge; about same shade as Christina...	3.50
Rockwood's Hybrid Pink, No. 3. Early brilliant rose pink.....	3.50
Spartan Rose (Weddle).....	3.00
Top Flight. Earlier than Christina. Nearly identical in color, floret size and length of spike. Greater vigor and much more uniform.....	3.50
Whirlaway (Yoder). Medium early; deeper color than Mary Ellen.....	3.50

YELLOW

Pkt.

Goldmine . Hybrid.....	\$3.00
Jubilee (Winkler). Light Apricot bronze.....	3.00
Patricia (Yoder) (New Hybrid). Medium yellow. Habit similar to Margaret.....	3.50
ROCKWOOD'S HYBRID YELLOW, NO. 10	
A fairly deep yellow, well formed flowers, stems heavy and stiff. Season—late September to June.	\$3.50
Sea Biscuit (Yoder Bros.). Good Winter and Spring variety. Uniform, vigorous.....	3.50
War Admiral (Yoder Bros.). Excellent Winter variety. Uniform and vigorous.....	3.50

ORANGE AND BRONZE SHADES

Barbara (Yoder) (New Hybrid). Large-flowered bronze with pink throat.....	\$3.50
Cavalcade (Yoder Bros.). Lively golden bronze. Vigorous, long spikes. Outstanding keeper.....	3.50
Gallant Fox (Yoder Bros.). Deep orange bronze, similar to Lady Dorothy. More vigorous. Compact floret placement. Little earlier than Barbara.....	3.50
Maryland Orange (Winkler). Orange-bronze. Vigorous; early to midseason.....	3.50
Rockwood's Hybrid Bronze, No. 25. Reddish bronze, closely set flowers.....	3.50

LAVENDER

Bold Venture (Yoder Bros.). Early uniform, hard stem. Medium floret size. Rich lavender, or bright, light magenta.....	\$3.50
Maryland Lavender . New. Clear light orchid lavender. Pleasing shade. Medium, early. Large florets on heavy close spike. Good for single stem as well as pinched culture.....	3.50
Rockwood's Hybrid Lavender, No. 20. Rosy lavender similar to Lavender Rose.....	3.50

RED

ROCKWOOD'S HYBRID RED, NO. 15

Brilliant scarlet, large, well formed flowers, stems wiry and fairly heavy, early and a good variety for Fall and early Winter blooming. Season—late September to June.	\$3.50
Better Times (Windmiller). Rich American Beauty Rose red (for Christmas).....	2.00
Maryland Red (Winkler). Early bright red; tall and vigorous.....	3.50
Priscilla Ann (Yoder) (New Hybrid). Early crimson, trace of yellow on lips.....	3.50

Antirrhinum

ALL THE BEST—Greenhouse Forcing “SNAPS”

Originator's Packets

SELF-POLLINATED VARIETIES

WHITE

	Tr. <i>pkt.</i>
Crystal White (New, 1949) (Rockwood). Excellent late variety. Does well late Spring and Summer. For Spring crop—bench by November 1st. For Summer single stem culture bench June 1-15.....	\$3.00
Margaret (J. S. Yoder). Ivory white.....	2.00
Rockwood's Ivory . Rich ivory shaded white. Best white for the Mother's Day market.....	2.00
Snowdrift (Pan. Amer.) (New Double White).....	3.00

PINK AND ROSE SHADES

Peggy Schumann (Schumann). Early. Medium rose pink.....	2.00
Rockwood's Pink Supreme . Brilliant rose pink at its best in midseason.....	2.00

RED

Schumann's Velvet Red (New).....	3.00
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YELLOW

	<i>Tr. pkt.</i>
Ethel (Kramer). Large bright yellow; very early.....	\$1.50
Rockwood's Winter Yellow . Beautiful yellow; one of the best.....	2.00

BRONZE AND ORANGE SHADES

Rockwood's Lavender Bronze . New two-tone.....	3.00
Rockwood's Winter Bronze (New). Reddish bronze, large and closely set flowers. Stems heavy and almost devoid of laterals.....	2.00

LAVENDER

Rockwood's Lavender Rose . Fine for Easter and Mother's Day markets. Deep rose with a lavender hue.....	3.00
Rockwood's Winter Lavender . Same color as Lavender Rose but much earlier. Blooms with Rockwood's Winter Yellow.....	2.00
Schumann's Lavender	2.00

CULTURAL HELPS

Special Note—Seed should be sown late June or July for Winter flowering in Northern States. Late July or early August in Southern States. High temperatures retard germination. Select a cool location for the seed flats where there is good air circulation. Water sparingly but keep moist, until seedlings are well established. We recommend using sterilized soil and it should not be fertilized. Dust seeds with Proliferol or Hormo-Root before sowing.

Forcing “Snap” for Hot Weather

FOR CUTTING LATE MAY TO EARLY SEPTEMBER

Based on observations and experiments for the past few seasons, we find that . . .

Hybrid varieties are best for early sowings for maturity late September to February.

For March to August blooming we advise the better self-pollinating varieties we list, as they seem to crop longer during Spring than the Hybrids do.

Hot weather varieties for June, July and August are very limited. For this purpose we recommend only those listed below. Grow single stem.

	Pkt.
Rockwood's Crystal White	\$3.00
Rockwood's Summer Pink No. 1 (New).....	3.00
Rockwood's Summer Yellow (New).....	3.00
Rockwood's Lavender Rose	3.00
Rockwood's Smoky Bronze	3.00
Rockwood's Summer Red (New).....	3.00

Fleck's Outdoor Snaps 200,000 S

STANDARD OUTDOOR RUST-RESISTANT STRAINS

For early Summer cut outdoors sow taller varieties February 1st. For flat and pot sales sow early March

MAJUS-MAXIMUM, Improved

30 inches

Through extensive breeding work in the past few years to improve both Majus and Maximum strains, the two have become virtually identical. Majus are now slightly taller and Maximums have better and closer spacing of flowers, thus erasing the original basic differences between these two types.

We therefore highly recommend the following:

Apple Blossom. Rosy pink, white tube.

Brilliant Rose. True rose pink.

Campfire. Luminous scarlet.

Cherry Rose. Deep brilliant cherry rose.

Copper Queen. Bronzy copper.

Orange Shades. Brilliant tones of orange.

Padre. Glossy deep crimson, dark stems.

Paradise Rose. Lively light pink.

Rosalie. Bright deep rose.

Shasta. Best pure white.

Yellow Giant. Best deep canary yellow.

Formula Blend. Mixture of above blended in proper proportion to give the widest range of pleasing colors.

Prices of any above or mixture:

Tr. pkt. 50c., 1/16 oz. 80c., 1/8 oz. \$1.40,
1/4 oz. \$2.40, oz. \$7.00, 4 ozs. \$20.00

GIANT SKYSCRAPER (Mixture)

The tallest of them all. 36 inches. Base branching. Each spike having a great number of huge blooms. At present, this blend contains a variety of soft shades with an occasional rosy orange, rosy bronze and delicate lavender.

Tr. pkt. 50c., 1/16 oz. 85c., 1/8 oz. \$1.60, 1/4 oz. \$3.00



Snapdragon

TETRAPLOID (Giant Ruffled)

20-24 inches

This comparatively new class of Giant Ruffled are now available in separate colors.

Orchid. Rich orchid purple with yellow blotch.
1/2 tr. pkt. 85c., tr. pkt. \$1.50, 1/8 oz. \$4.00.

Pink. Salmon and rose shades.

Sunset. Bronze to primrose shades.

White. Pure white when fully opened.

Yellow. Clear yellow. Tall and base branching. Large florets.

Above, each, except Orchid:
Tr. pkt. 50c., 1/8 oz. \$1.50, 1/4 oz. \$2.90

Tetraploid. Giant ruffled; mixed. Tr. pkt. 50c., 1/8 oz. \$1.25,
1/4 oz. \$2.35, oz. \$9.00.

ARCTOTIS - African Lilac Daisy

Tr. pkt. 1/4 oz. Oz.

Grandis. 25,000 S. Single, silvery white, Daisy-like flowers with lilac shading and dark center. 30 in..... \$0.30 \$0.70 \$2.00

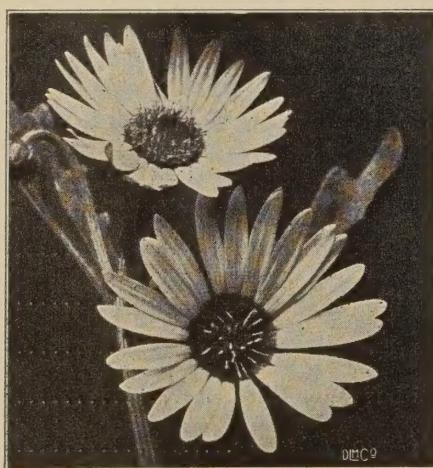
Hybrids. 7700 S. Large-flowered, many attractive shades; resembling Gerberas. 2 1/2 to 3 in. across..... .50 1.45 4.40

ASPARAGUS

Northwest Grown—The Finest

Seeds: 100 250 1000

Plumosus nanus.....	\$0.30	\$0.75	\$2.75
Sprengeri.....	.30	.70	2.50



Arctotis

Fleck's Asters

Wilt-Resistant Strains 12,000 S

ASTER BURPEEANA EXTRA EARLY

This new strain is a complete mixture of all colors. Flowers are shaped similar to the American Beauty type, fully double and will attain a size of 4 inches. Plants are 20 inches tall and very uniform in growth, with a closely compact, upright habit. Aster Burpeeana is perhaps the earliest Aster strain in cultivation, flowering about two weeks ahead of Queen of the Market. Its large flowers and long stems make it attractive to both home gardeners and florists.



Aster Burpeeana

Tr. pkt. \$1.25, $\frac{1}{4}$ oz. \$3.00, oz. \$8.50



American Branching

AMERICAN BRANCHING



Heart of France

AMERICAN BRANCHING—24 in.

Midseason

Azure Blue	Ball White	Ball Phlox,
Heart of France	Ball Deep Rose	pink
crimson	Ball Purple	Choice Mixed

Prices of any of the above Asters:

Tr. pkt. 35c., $\frac{1}{4}$ oz. 65c., oz. \$2.00, $\frac{1}{4}$ lb. \$7.00

Newer varieties

AMERICAN BRANCHING CLASS

Azure Blue. Clear light blue, fully double.

Pink Ball. Shell pink. Long stemmed. Large flower. Double.

Purple Ball. Dark purple, fully double.

Rose Ball. Full double rich deep rose. Large bloom.

White Ball. Pure white; very double. Large flower and stiff stems.

Mixture of above. Our own blend equally divided.

Above, each or mixture:

Tr. pkt. \$1.70, $\frac{1}{4}$ oz. \$3.00, oz. \$9.50

ASTERS—Continued next page

Fleck's Asters

Giants of California



GIANTS OF CALIFORNIA—30 in.

Curled and Interlaced, Improved

Crimson	Deep Rose	Light Blue
White	Giant Shell Pink	Mixed

Prices, Giants of California:

Tr. pkt. 50c., $\frac{1}{4}$ oz. \$1.00, oz. \$3.85

EARLY BEAUTY—30 in., Early

Azure Blue	Deep Rose	Early Ball White
Crimson	Purple or Dark Blue	Choice Mixed

Above, each:

Tr. pkt. 40c., $\frac{1}{4}$ oz. 90c., oz. \$3.00, 4 ozs. \$10.00

MIXTURES

Finest Mixture of All Doubles.

Tr. pkt. 30c., $\frac{1}{4}$ oz. 60c., oz. \$1.90, $\frac{1}{4}$ lb. \$6.50

Fleck's Rainbow Mixture. A colorful blend of single and semi-double flowers. Plants branch upright and make very even growth, for easy cutting and bunching. Tr. pkt. 30c. $\frac{1}{4}$ oz. 45c., oz. \$1.50, $\frac{1}{4}$ lb. \$5.00.

Princess Asters



PRINCESS—24-30 in.

New Cutting Type—Tall, Branching

Anne.	Peach blossom.	Linda.	Clear rose.
Barbara.	Orchid.	Marsha.	Rich scarlet.
Bonnie.	Soft salmon rose.	Margaret.	Deep rose.
Elizabeth.	Pure white.	Susan.	Deep blue.
		Mixed.	

Prices of Princess:

Tr. pkt. 40c., $\frac{1}{4}$ oz. 90c., oz. \$3.00, $\frac{1}{4}$ lb. \$10.00



Visit Our Display Rooms

Begonia

FIBROUS-ROOTED—ALL THE BEST

We Offer Only Varieties (Such as Listed Below) That Have Definitely Proved Themselves Worthy of a Grower's Time

Everblooming types, especially adapted for bedding and border plantings. Seeds we offer here have been produced by Begonia specialists who introduced many of these varieties. January sowing will produce choice plants for Spring sales, but seeds may be sown any time.

EXTRA DWARF

Fleck's Dwarf Carmen. Light pink flowers. Rich bronze leaves. Extra compact habit.

Saga. Bright red. Extra dwarf; dense growth.

Prices of the above:

Tr. pkt. \$1.25, 1/64 oz. \$3.50, 1/32 oz. \$6.50

DWARF

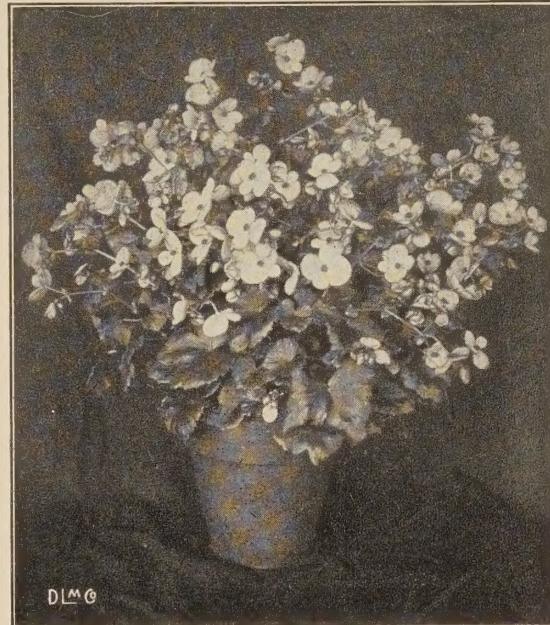
	Tr.	1/64	1/32
	pkt.	oz.	oz.
Adeline. Rich rose pink. Green foliage.			
Dwarf, compact. Very similar to Pink Pearl.....		\$1.50	\$3.25
Pearl.....			\$6.00
Ball Red. Bright red; medium dwarf.....	1.50	3.25	6.00
Ball Deep Rose. Deep rosy red which gradually fades to a luminous pink. Green foliage.....	1.50	3.25	6.00
Luminosa compacta. Dwarf growing in perfect little globular plants; 6 to 8 in. reddish brown foliage.....	1.50	3.25	5.50
Pink Pearl. F1 Hybrid; rich pink, uniform dwarf; free flowering. Originator's pkts..	1.50	....	....
Red Pearl. F1 Hybrid; same as Pink Pearl except color is Luminosa red. Originator's pkts.....	1.50	....	....
Snowbank. Finest white for pot plant sales. Light green foliage.....	1.25	2.75	5.00
Dwarf Mixed. Choice blend of all the above including the new extra dwarfs.....	1/16 oz.	\$9.00,	1.50 3.00 5.25

MEDIUM TALL

Carmen. Clear rose pink, greenish bronze foliage; 8 to 10 in. Makes a beautiful pot plant.....	\$1.25	\$2.75	\$5.00
Indian Maid. Similar in habit of growth to Carmen with reddish, dark bronze foliage. Bright scarlet.....	1.25	2.75	5.00
King of the Reds. Glowing scarlet, foliage green with bronze edge.....	1.25	2.75	5.00
Luminosa. Rich deep scarlet with dark foliage. Very floriferous. Height 10 in... 1.25 3.00 5.25			

TALL

Scandinavia Pink. Large flowers, green foliage. Bright rose pink. Dwarf and bushy.....	\$1.00	\$2.75	\$5.00
Scandinavia Red. Bright carmine scarlet. 1.00 2.75 5.00			
Scandinavia White. 1.00 2.75 5.00			
Special Mixed. 1/16 oz. \$6.50, 1.25 2.50 4.00			



Begonia

BACHELOR BUTTONS - See Centaurea

BALSAMS

3300 S



Balsam, Bush Flowering

DOUBLE BUSH TYPE—15 in.

Rose	Scarlet	White	Mixed
Prices of Bush-flowered: Tr. pkt. 35c., 1/4 oz. 75c., 1/2 oz. \$1.15, oz. \$2.25			

DOUBLE CAMELLIA-FLOWERED—18 in.

Mixture. Tr. pkt. 20c., 1/4 oz. 30c., 1/2 oz. 55c., oz. \$1.00

BROWALLIA



Browallia

65,000 S

Speciosa major. Rich blue, fine for pot or basket work.
Tr. pкт. \$1.00, 1/16 oz. \$2.25, 1/8 oz. \$4.00, 1/4 oz. \$7.50.

Viscosa compacta, Sapphire. Dark blue with white eye; 9in.
Tr. pкт. 40c., 1/16 oz. \$1.10, 1/8 oz. \$2.00, 1/4 oz. \$3.60.

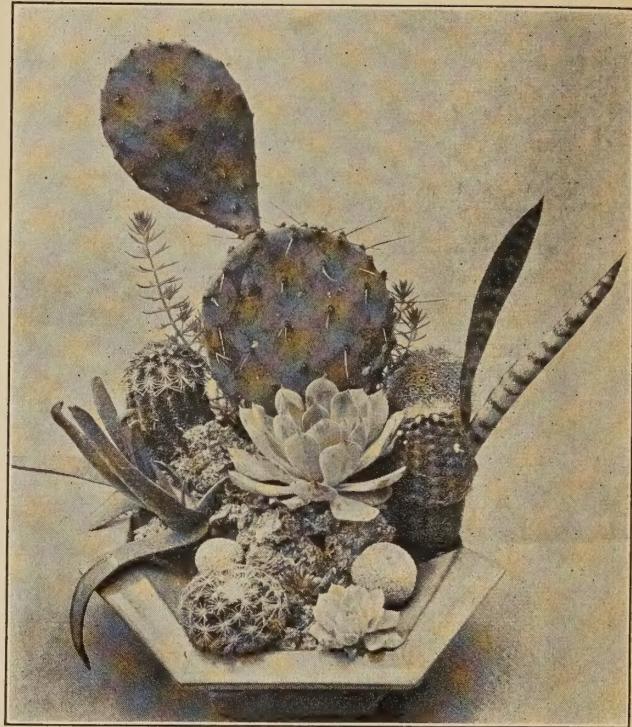
BELLS OF IRELAND

7000 S

Produces spikes of large, bell-like sheaths of translucent green surrounding a small white flower. Base branching. Good for cutting. Can be used also as a dried filler. Somewhat slow germination.

Tr. pкт. 55c., 1/4 oz. \$2.00, oz. \$6.50

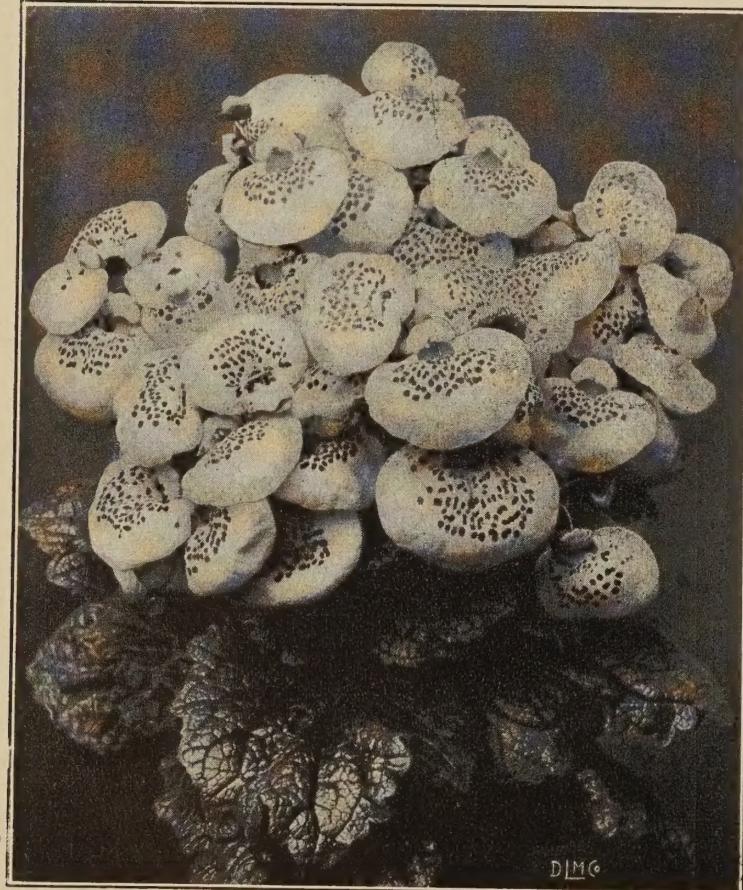
CACTUS



Cactus

Tr. pкт. 1/8 oz. 1/4 oz. Oz.

Extra Choice Mixed..... \$0.60 \$1.25 \$2.25 \$6.90



DIMC

CALCEOLARIA

Approximately 10,000 S to 1/64 oz.

Calceolaria do not like direct sun but a light, airy place and temperature around 50 degrees.

For Easter flowering in a 6-inch pot, sow seeds June-July. To finish in 5-inch sow about August 15. For 4-inch sow about September.

In our experience we have found either of the 2 mixtures below to be the best for florists requirements. The Multiflora Nana make especially nice pot plants in 4's for Easter sales.

Multiflora nana, Mixed. Flowers profusely; of medium size; gay colors. Very popular. 10 in.

Triumph Strain (Hybrid). Outstanding; bright shades of yellow, orange, red and rose. Large flowers, mostly tigereed or spotted.

Above each: Tr. pкт. \$1.25, 1/128 oz. \$2.75,
1/64 oz. \$5.00, 1/32 oz. \$9.00, 1/16 oz. \$16.50



Candytuft



Celosia, Feather Variety



Calendula



Calliopsis

CALENDULAS—GREENHOUSE VARIETIES

3000 S

One of our specialties. We offer the finest strains available anywhere. None better.

Fleck's Orange. A fine, reselected strain for florists. Orange red with dark center. Very large, double flowers with long orange petals. Vigorous habit, long stems. 30 to 36 in.

Ball Apricot Improved. Buff color with dark eye.

Ball Lemon Queen. Lemon yellow with brown eye.

Ball Improved Long Orange. Long stemmed; large flowered variety. Golden orange with light eye.

Above, each: Tr. pkt. 50c., $\frac{1}{4}$ oz. \$1.00, oz. \$2.90, 4 ozs. \$8.80

Fleck's Special Florists' Mixture of above.

Tr. pkt. 50c., $\frac{1}{4}$ oz. 75c., oz. \$2.50, $\frac{1}{4}$ lb. \$7.65

CALLIOPSIS

90,000 S

Tr. pkt. Oz.

Dwarf Goblin. 6 in. Dwarf, compact, for pot sales. Mixture of Yellows, Reds, Browns and Bicolors. $\frac{1}{4}$ oz. 75c. \$0.40 \$2.50

CANDYTUFT

(Coronaria—12 in.—Annual)—9500 S

Iceburg. New super Hyacinth flowered. Six spikes generally 12 to 15 in. tall. Florets about twice size of any other Candytuft.

Tr. pkt. 75c., $\frac{1}{8}$ oz. \$1.25, $\frac{1}{4}$ oz. \$2.00, oz. \$7.00

Giant Hyacinth-flowered. White popular strain.

Tr. pkt. 30c., oz. 95c., $\frac{1}{4}$ lb. \$3.00, lb. \$9.60

UMBELLATA—12 in.

Crimson
Flesh Pink

Lavender
Rose Cardinal
Choice Mixed

Rose
White

Tr. pkt. 20c., oz. 50c., $\frac{1}{4}$ lb. \$1.65, lb. \$5.50

Dwarf Hybrid Mixed. Fine for pot sales or combinations. 4-6 in. Tr. pkt. 20c., $\frac{1}{2}$ oz. 60c., oz. \$1.00.

PERENNIAL CANDYTUFT—Listed on page 38.

CARNATION—14,000 S

CHABAUD'S GIANT IMPROVED—16 to 20 in.

Early and Perpetual Flowering—Clove-scented

These Carnations bloom five months from time seed is planted and continue throughout the Summer. The plants are of robust, upright habit; form 10 to 20 stalks, bearing huge flowers of fine form. They come about 95 per cent double, are true and are clove-scented.

Crimson

Deep Salmon

White

Deep Rose

Rose Pink

Special Mix

Tr. pkt. 40c., $\frac{1}{8}$ oz. 55c., $\frac{1}{4}$ oz. \$1.00, oz. \$3.00

MARGUERITE

Fleck's Top Notch Double Mixture. Free flowering Summer Carnation.

Tr. pkt. 25c., $\frac{1}{8}$ oz. 40c., $\frac{1}{4}$ oz. 65c., oz. \$2.20

PERENNIAL CARNATIONS—Listed on page 38.

CELOSIA

CRISTATA, DWARF (Cockscomb Types)—12 in.
28,000 S

Dwarf Empress. Scarlet, bronze green foliage.

Glasgow Prize. Deep crimson, bright green foliage.

Dwarf Mixed. Fine blend.

Above, each: Tr. pkt. 30c., $\frac{1}{4}$ oz. 65c., oz. \$2.25

TALL COCKSCOMB

Gilbert's Maple Gold. Pink shades tipped gold. Very attractive. Produces 8 to 12 flower heads, more if center is pinched. Height 30-36 in. Pkt. 50c.

Gilbert's Gold Dust. Rich yellow with silvery sheen. Ruffled ball shaped heads on branched plants. Turns to deep gold or chartreuse as it matures. Height 2 $\frac{1}{2}$ -3 ft. Good cut fresh or dried. Pkt. 50c.

Toreador. New medium tall, bright red. 12 in. heads. 20 in. tall.

Tr. pkt. \$1.00, $\frac{1}{8}$ oz. \$2.20, $\frac{1}{4}$ oz. \$4.00, oz. \$12.00

PYRAMIDALIS—12 in.

Fine for pots and combinations. Upright plumes.

Fiery Feather

Golden Feather, fine for pot

Feather Mixture

Tr. pkt. 30c., $\frac{1}{8}$ oz. 70c., $\frac{1}{4}$ oz. \$1.25, oz. \$4.25

SPICATA—3 to 5 ft.

This type has many uses. Good filler for baskets, bouquets and for drying. Flowers bright rose which changes to silvery white.

Tr. pkt. 25c., $\frac{1}{4}$ oz. 60c., oz. \$1.75

CHEIRANTHUS — See Perennial Section

CINERARIA—All the Better Strains



Cineraria, Multiflora Nana

Berlin runs about 3600 S to 1/32 ounce. Others about 5000 S to 1/32 ounce. Sow from June on for Christmas and later flowering. Sow in sterilized soil.

Tr. 1/64 1/32 1/16

Berlin or Potsdam Strain, Mixed. pkt. oz. oz. oz.

Fine strain producing large rounded heads; medium large flowers, compact plants. \$1.00 \$2.00 \$3.75 \$7.00

Cremer's Prize Strain Mixture.

Excellent florists mixture; about half light eyed. 1.75 2.45 4.45 8.00

Multiflora nana Mixed.

Dwarf compact plants producing masses of small flowers; very popular. 1.25 2.00 3.50 6.50

Fleck's Blend.

This is a carefully blended mixture containing all of the above. 2.00 2.90 5.00 8.95

CENTAUREA

CYANUS (Double Cornflower, 30 in.)

For Spring greenhouse flowering or outdoors in June and July from a Fall sowing. We offer the finest strains available.

6500 S

Blue Boy. Good forceer. **Red Boy.**

Pinkie. Rose pink. **Fleck's Special Mixed.**

Tr. pkt. 25c., oz. 50c., 1/4 lb. \$1.65, lb. \$5.50

DWARF—For Pots, Borders

Tr. pkt. 1/4 oz. Oz.

Jubilee Gem. Deep blue. \$0.30 \$0.55 \$1.50

GIANT IMPERIALIS

Sweet-scented Cut Variety—30 in.

Thistle-like flowers and larger than the Cyanus type.

7500 S

Amaranth Red.

Lavender Beauty. Light lavender with creamy white center.

Suaveolens. Yellow Sweet Sultan. 20 in.

Mixed. Blend of above.

Tr. pkt. 20c., 1/4 oz. 35c., oz. \$1.00

DUSTY MILLER

Fine for borders, vase and basket work.

7500 S Tr. pkt. 1/4 oz. Oz.

Candidissima. Silver gray foliage; slow grower; start early. 6 in. \$0.50 \$1.10 \$3.75

Gymnocarpa. Fine silvery foliage; fern-leaved, strong grower. 24 in. 1/4 lb. \$2.75, .20 .30 .90

CENTAUREA MONTANA—Listed on page 38.

CHINESE FORGET-ME-NOT - See Cynoglossum

CHRISTMAS PEPPER - See Solanum

CHRYSANTHEMUMS (Annual—2 ft.) 9000 S

Good cut varieties for Spring. Space at least 12x12 in. Responds well to electric light forcing. Germination little slow and irregular.

CORONARIUM

Tr. pkt. 1/4 oz. Oz.

Double Mixed. 4 ft. \$0.20 \$0.35 \$1.00

CLARKIA

ELEGANS DOUBLE—24 in.

Popular Spring cut flower. Sow in January and grow in shallow soil, disbudding to 2 or 3 spikes for long-stemmed flowers. Keep fairly dry after plants are foot high to prevent soft lanky growth. Do not feed.

90,000 S

Albatross. Pure white.

Brilliant. Deep rose.

Orange King. Bright salmon orange.

Mixture.

Tr. pkt. 20c., 1/4 oz. 35c., oz. \$1.25

CLEOME - Spider Plant 4 ft.

12,000 S Tr. pkt. 1/4 oz. Oz.

Pink Queen. Brilliant rose pink fading to clear white. \$0.35 \$0.55 \$1.90

COBAEA

SCANDENS (Cathedral Bells)

380 S Tr. pkt. 1/4 oz. Oz.

Annual Climber. Strong grower; violet blue purple. \$0.30 \$0.60 \$1.80

COCKSCOMB - See Celosia

COLEUS

Finest Strains—None Better

7000 S per 1/16 oz.

Giant Rainbow Mixture. Wonderful range of endless brilliant colors. Easy to grow this superb blend. Patient work and constant checking has made this mixture one of the finest ever offered anywhere.

1/2 tr. pkt. 90c., tr. pkt. \$1.60, 1/64 oz. \$2.60, 1/32 oz. \$5.00, 1/16 oz. \$9.00

Glory of Vichy. Golden, apricot and copper shades.

Tr. pkt. 50c., 1/32 oz. \$1.45, 1/16 oz. \$2.40

Cyclamen

OUTSTANDING FINE STRAINS SELECTED FOR GIANT FLOWERS AND BEAUTIFUL FOLIAGE

Originator's Seed—American Grown

Sow from May to January in sterilized soil. Grow cool and shaded. Always shift to larger pots before any chance of plants becoming pot bound. This prevents stunting. Discounts same as on all Flower Seeds.

250 of a variety at 1000 rate—extra 5 percent discount on 10,000



Cyclamen, Fringed



Cyclamen, Silver Foliage

	Seeds: 100	1000
America Improved. Salmon scarlet.....	\$2.50	\$22.00
Bonfire, or Leuchtfeuer. Brilliant salmon red.....	2.50	22.00
Bright Red.	1.90	17.00
Fleck's Silver Foliage. Salmon red bloom. Makes a beautiful and unique pot plant. Outstanding.....	2.50	22.00
Mozart. Deep pink, exquisite.....	2.50	22.00
Perle of Zehlendorf. Dark salmon improved.....	2.40	21.00
Pure White. Very large bloom.....	1.90	17.00
Saffron Red. Red, with salmon glow.....	2.50	22.00
Saffron Red. Silver edged.....	2.50	22.00
White with Carmine Eye.	1.90	17.50

MIXTURES

Fleck's Special Mixture. All varieties.....	\$2.50	\$22.00
Fringed Mixed.	2.50	22.90

VOGT'S DOUBLE STRAIN

Double flowers in very attractive shades. Free bloomer.		
Mixture —Of all the best colors.....	\$3.50	\$25.00
VOGT'S Mixture of doubles.	3.80	28.00

COSMOS

SINGLE EARLY FLOWERING—40 in.

3000 S—Blooms in 3 months

Orange Ruffles. Semi-double, orange. Blooms profusely.

Yellow Flare. Bright yellow.

Tr. pkt. 20c., $\frac{1}{4}$ oz. 35c., oz. \$1.00

SENSATION, SINGLE—40 in.

Blooms in 10 weeks after sowing. Very early and true to color. Extra large flowers. Fine for cut. Suitable for outdoors even in northern climates.

5000 S	Tr. pkt. $\frac{1}{4}$ oz.	Oz.
Crimson Dazzler. Bright crimson. An improved strain.....	\$0.25	\$0.50 \$1.60
Pinkie. Rose pink.....	.25	.40 1.10
Purity. White.....	.25	.40 1.10
Radiance. Deep rose with large crimson eye.....	.25	.50 1.60
Mixed......	.25	.40 1.10

CUPHEA - Cigar Plant



Cuphea, Firefly

7000 S—12 in.

Firefly. Bright scarlet flowers. This makes a nice, bushy, compact pot plant for Spring sales. Excellent for bedding or borders, window boxes, etc. March sowing. Blooms all Summer. Tr. pkt. 25c., $\frac{1}{8}$ oz. 75c., $\frac{1}{4}$ oz. \$1.35.

DAHLIAS



Dahlia, Unwin's Ideal Dwarf

Blooms in 3 to 4 months—2800 S

Unwin's Dwarf Hybrids Mixed. Semi-double early flowering. Height 18 in.

Unwin's Ideal Bedding Mixture. Improved early flowering double and semi-double; curled and quilled. Attractive color range; 24 in.

Price of above: Tr. pkt. 30c., $\frac{1}{4}$ oz. 75c., oz. \$2.75, $\frac{1}{4}$ lb. \$8.00

New Extra Dwarf Unwins. A new, improved mixture. Reselected for uniform dwarfness. Attractive color range in double and semidouble flowers.

Tr. pkt. 40c., $\frac{1}{4}$ oz. 85c., oz. \$2.95, 4 ozs. \$11.00

Cactus-flowered. Tr. pkt. 60c., $\frac{1}{8}$ oz. \$1.25, $\frac{1}{4}$ oz. \$2.25

VISIT OUR DISPLAY ROOMS

Take advantage of our cash and carry discounts.

Open Monday through Saturday,

8:30 A. M. to 5:30 P. M.

Except on Saturday we close at 5 P.M.

Closed all day Saturdays during July and August

CYNOGLOSSUM -

Chinese Forget-me-not

5000 S Tr. pkt. $\frac{1}{4}$ oz. Oz.

Firmament. Beautiful clear blue; 15 in., bushy, compact. Fine bedding plant....\$0.20 \$0.40 \$1.35

DAISY

See the following in Annual or Perennial Sections under

Agathaea

Chrysanthemum

Arctotis

Dimorphotheca

Bellis

Gerbera

Brachycome

Mesembryanthemum

Pyrethrum

DIANTHUS -

Annual Sweet William



Double Dianthus

25,000 S

Tr. pkt. $\frac{1}{4}$ oz. Oz.

Chinensis, Double Mixed. 20 in.....

$\frac{1}{4}$ lb. \$2.50 \$0.20 \$0.40 \$1.00

For **PERENNIAL DIANTHUS** (Hardy Pinks) and **DIANTHUS barbatus**—See page 39.

DIDISCUS

10,000 S Tr. pkt. $\frac{1}{4}$ oz. Oz.

Coeruleus (Blue Lace Flower). 2 ft. See also "Queen Anne's Lace Flower" for white which can be dyed any color. \$0.20 \$0.35 \$1.00

DRACAENA

Tr. pkt. Oz. $\frac{1}{4}$ lb.

Indivisa. 1500 S. Narrow-leaved variety. Lb. \$14.50 \$0.40 \$1.25 \$4.00

DUSTY MILLER—See *Centaurea*, page 10.

FEVERFEW - See Matricaria

FORGET-ME-NOT - See Myosotis

FOUR O'CLOCK - See Mirabilis

GAILLARDIA

(Annual)—20 in.

14,000 S Tr. pkt. $\frac{1}{4}$ oz. Oz.

Indian Chief. Single bronze red. \$0.20 \$0.35 \$1.00

Sunshine, Double Mixed. Full, double blooms about 2½ in. across on stems 18 in. long. Attractive shades of wine red, yellow and bicolor red and yellow. Good Summer cut.30 .70 2.40

For PERENNIAL GAILLARDIA—See page 40.

GAZANIA - See Perennial Section

GERBERA - Transvaal Daisy

Greenhouse Perennial Seeds: 100 1000

Duplex Hybrids. Bright colors; large flowers on long stems. \$0.65 \$5.50

GOMPHRENA - Globe Amaranth

5500 S Tr. pkt. $\frac{1}{4}$ oz. Oz. $\frac{1}{4}$ lb.

Buddy. Bright reddish purple; dwarf, compact. \$0.30 \$0.75 \$2.25 \$6.95

GOURDS (Ornamental)

450 S

Small Mixed Fancy Sorts. 11 varieties.

Large and Small Mixed. 20 varieties.

Tr. pkt. 25c., $\frac{1}{4}$ oz. 35c., oz. 90c.

GREVILLEA - Silk Oak

3000 S

Robusta. Fine foliage plant for holiday baskets. Seeds sown about June will make nice, 3 in. for Poinsettia pans Tr. pkt. 30c., $\frac{1}{4}$ oz. 95c., oz. \$2.30.

GYPSOPHILA - Baby's Breath

24 in.—Annual—24,000 S

TRUE STRAINS

Easy grower, free blooming. Every florist should grow this to fill in with cut flowers, etc.

New York Market. White Grandiflora, large flowering type. Special strain. We consider this variety the only worthwhile for commercial growers.

Oz. 35c., 4 ozs. \$1.00, lb. \$3.50, 5 lbs. \$16.00

HARDY GYPSOPHILA—Listed on page 40.

HELIANTHUS - Double Sunflower

650 S

Seeds sown outdoors in early May will produce a profusion of double flowers like Chrysanthemums during August. Fine for cutting and shipping to market or for basket work.

Sun Gold. Bright golden yellow, large, free flowering 100% double. 4 to 5 ft.

Tr. pkt. 20c., $\frac{1}{4}$ oz. 30c., oz. \$1.00, $\frac{1}{4}$ lb. \$3.50, lb. \$9.50



Helianthus



Helichrysum

HELICHRYSUM MONSTROSUM

Double Strawflower

The finest for drying purposes.

36 in.—35,000 S

Canary Yellow

Salmon Queen. Salmon

Crimson or Fireball

pink

Golden Globe

Silver Ball. White

Rose Queen. Rose pink

Violet

Choice Mixed

Tr. pkt. 25c., $\frac{1}{4}$ oz. 35c., oz. \$1.25, 4 ozs. \$4.00

Larkspur

8000 S

A January sowing of Larkspur will flower about May, depending on temperatures. While its sown outdoors to advantage in the Fall, Spring sowings do about as well if sown the first day the ground can be prepared. To get best germination results freeze seeds for several days before sowing. You may also sow in December to bench after Mums. In ground beds place them 12 x 12 inches. Raised beds 10 x 10 inches.

HELIOTROPE



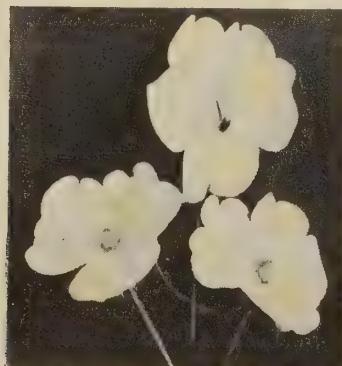
Heliotrope

50,000 S Tr. pkt. $\frac{1}{4}$ oz. Oz.

Regale Mixture, Dwarf. 15 in. This is about the best strain for evenness of color with large flower heads.....\$0.40 \$1.00 \$3.25

IMPATIENS

Best European Strains



Impatiens

Ideal for shaded locations. Good Spring seller. Can also be flowered for Christmas.

DWARF VARIETIES

Sultani Dwarf Bright Carmine. 6 in.

Sultani Dwarf Bright Orange. New color in this class. Dwarf spreading habit. Very attractive.

Sultani Dwarf Mixture. 6 in. Many shades; flowers continuously.

Holsti Salmon. 6 in.

Tr. pkt. \$1.25, 1/32 oz. \$2.00, 1/16 oz. \$3.75

TALL VARIETIES

Sultani Hybrids Mixed. 18 in.

Holsti Vermilion. 18 in. Excellent for Summer bedding.

Holsti Hybrids Mixed. 18 in. Many shades.

Tr. pkt. 50c., 1/16 oz. \$1.10, $\frac{1}{8}$ oz. \$2.00

LARKSPUR - Supremes

GREATLY IMPROVED GIANT IMPERIALS—

4 ft.

Base branching, tall, upright.

Dark Blue	Pink	White
Light Blue	Rose	Supreme Mixture
Lilac	Salmon	

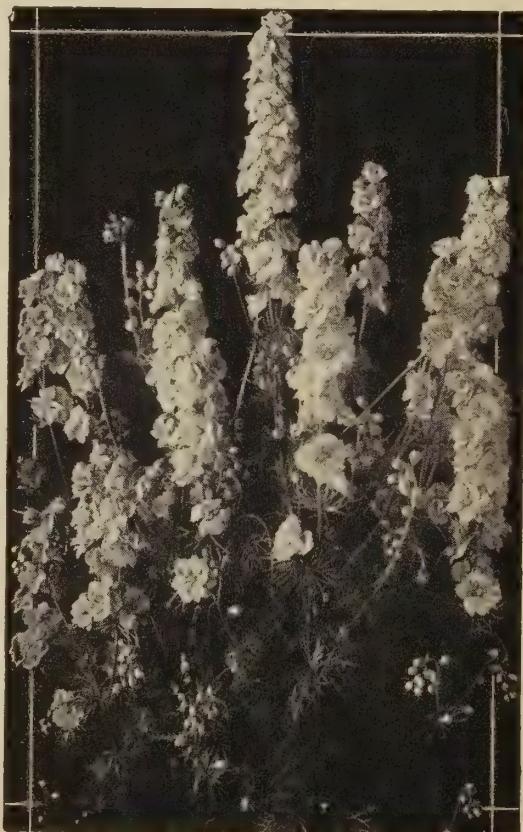
REGAL STRAIN

Base branching. Huge, Delphinium-like florets on long thick spikes. Doubles.

Lilac	Salmon Rose
Rose	White (Pure white)
	Mixture

Prices of all Larkspur:

Tr. pkt. 40c., $\frac{1}{2}$ oz. 90c., oz. \$1.60,
4 ozs. \$5.80, lb. \$16.50



Larkspur

IBERIS

See CANDYTUFT in Annual and Perennial Sections

IPOMOEA - Morning Glory

(MOONFLOWER)

Tr. pkt. $\frac{1}{4}$ oz. Oz. $\frac{1}{4}$ lb.

Blue Star. Clear sky blue with 5
ribs forming an attractive star.....\$0.40 \$0.75 \$2.25

Heavenly Blue, Clarke's Early.

800 S..... .25 .35 .75 \$2.25

Noctiflora. Large-flowered white.

110 S. Night blooming..Lb. \$4.00 .25 .35 .75 2.40

Pearly Gates. White..... .25 .50 1.65 5.50

Scarlett O'Hara. Brilliant carmine
red. 650 S..... .20 .45 1.25 4.50

KALANCHOE (Succulent)

900,000 S

Sow January or February for next Winter sales.

Brilliant Star. Hybrid. Makes fine pot plant. Blooms
about three times size of other Kalanchoe. Bright fiery
red. 12 in. stems extend above the foliage. Nice for cuts.

Tom Thumb. Dwarf strain of Blossfeldiana, ideal pot
plant. Bright scarlet.

Prices above, each:

Tr. pkt. \$1.00, 1/128 oz. \$2.00, 1/64 oz. \$3.80

LARKSPUR—See page 14

LUPINUS - Hardy Annuals

1400 S

DWARF VARIETIES

Excellent for pot sales or combinations.

NEW DWARF—8 in.

Pixie Delight. Mixture of pink, rose, blue, lavender and
white as well as bicolors. Very early, free bloomer.

Tr. pkt. 35c., $\frac{1}{4}$ oz. 70c., oz. \$2.10

FOR PERENNIAL LUPINUS—See page 42.

LOBELIA



Lobelia

4 in.—710,000 S

Early sowing recommended.

Fleck's Blue Stone. Dwarf bright rich blue, compact.

Mrs. Clibran. Improved, deep blue with white eye.

Tr. pkt. 30c., $\frac{1}{8}$ oz. 50c., $\frac{1}{4}$ oz. 85c., oz. \$3.15

PERENNIAL LOBELIA—Listed on page 41.

MYOSOTIS - Forget-me-not



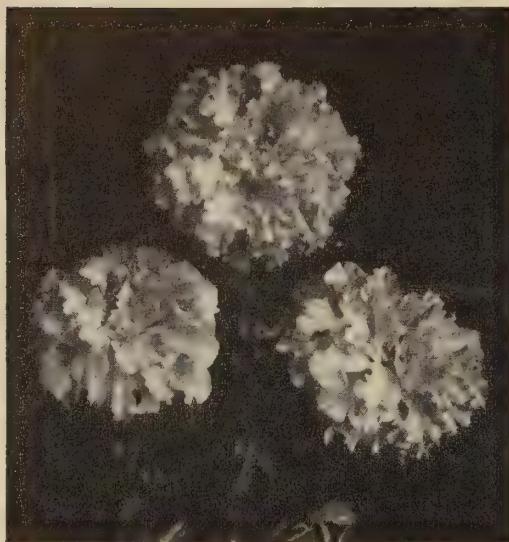
44,000 S

Fleck's Early. This early strain is ideal for sowing as late as
January for Spring blooming plants. Free flowering, bright
blue flowers. Tr. pkt. 40c., $\frac{1}{4}$ oz. 90c., $\frac{1}{2}$ oz. \$1.75, oz. \$3.25

PERENNIAL MYOSOTIS—Listed on page 42.

Fleck's Marigolds Your Money Makers

TALL, CUTTING VARIETIES 8,000 S



Carnation Type

CARNATION TYPES—24 in.

Buff Beauty. Golden buff, odorless.

Fleck's Gold Improved. Bright orange, odorless.

Frills. 2 ft. Vivid golden orange. Petals frilled and waved. Odorless.

Yellow Supreme. Dazzling lemon, overlaid buff; odorless.

Carnation Mixture. Odorless.

Prices above, each or mixture

Tr. pkt. 30c., $\frac{1}{4}$ oz. 55c., oz. \$1.75, 4 ozs. \$6.00

AFRICAN—30 in.

Tr. pkt. $\frac{1}{4}$ oz. Oz. $\frac{1}{4}$ lb.

All Double Gold. \$0.30 \$0.55 \$1.75 \$6.00

All Double Lemon.30 .55 1.75 6.00

All Double Orange.30 .55 1.75 6.00

All Double Mixed.30 .55 1.75 6.00

ODORLESS VARIETIES

Fleck's Gold Improved

Yellow Supreme

Frills

Buff Beauty

Cupid

These will be found in their respective classes on this and preceding page.

On Flower Seeds BACK ORDERING means time lost in starting crops. Rather than keep you waiting for items that are delayed or scarce we will substitute with varieties EQUAL-
LY GOOD OR BETTER unless you say "No Substitute"



Fleck's Giant Orange (Mum Flowered)

MISSION GIANTS

Chrysanthemum Flowered

Ball shaped blooms; 3 to 5 inches across. Plants are vigorous growers, base branching, producing 8 to 12 stems of good cutting length.

Tr. pkt. $\frac{1}{4}$ oz. Oz. $\frac{1}{4}$ lb.

Fleck's Giant Orange. Full double.

Uniform. Large-flowered, deep bright orange..... \$0.30 \$0.55 \$1.75 \$6.00

Glitters. Soft golden yellow. Blooms incurved. Bushy, erect plants. .35 1.00 3.00 7.00

Mammoth Mum. Light sulphur yellow; fluffy, ball-like blooms. Early. 30 in..... .40 .90 3.00 8.50

Yellowstone. Clear, rich yellow. 18 in..... .35 .75 2.50 8.00

Mission Giants Mixture. All the shades from light yellow to deep orange..... .30 .55 1.75 6.00

GREENHOUSE FORCING VARIETIES

For Winter flowering cut. Tr. pkt. $\frac{1}{4}$ oz. Oz. $\frac{1}{4}$ lb.

Fleck's Gold Improved. Bright orange, odorless foliage..... \$0.35 \$0.55 \$1.75 \$6.00

Yellow Supreme. Dazzling lemon, overlaid buff; fragrant..... .30 .55 1.75 6.00

Fleck's Marigolds Your Money Makers

ALL THE BEST DWARF BEDDING VARIETIES

10,000 S



Naughty Marietta

DWARF SINGLES

Lulu. New first real yellow in the Tagetes type. Very compact dome shaped plant. 7 in.

Tr. pkt. 35c., $\frac{1}{4}$ oz. \$1.00, oz. \$3.00

Ursula. New, same habit as Lulu. Golden orange with a bright orange zone and eye.

Tr. pkt. 35c., $\frac{1}{4}$ oz. \$1.00, oz. \$3.00

Dwarf Fire Cross. Very dwarf type of the original Fire Cross.

Flash. Tangerine and Marigold red, early, compact and bushy, very floriferous, excellent for borders, bedding and pot plants. 15 in.

Gnome (Little Giant). Golden orange. 6 in.

Naughty Marietta. Golden yellow with maroon blotch. 12-16 in.

Red Head. Anemone-flowered. Orange crest, tipped maroon and copper red to mahogany guard petals.

Sunny. Similar to Naughty Marietta but all clear yellow.

Dwarf Singles French Mixture of all the Above.
Except the three new ones.

Above each, except Lulu, Ursula:
Tr. pkt. 25c., $\frac{1}{4}$ oz. 50c., oz. \$1.75

DWARF DOUBLES

Tr. pkt. $\frac{1}{4}$ oz. Oz. $\frac{1}{4}$ lb.

Butterball Extra. New, extra dwarf.
6 in..... \$0.50 \$0.95 \$3.00 \$10.00

***Butterball.** Butter yellow. 8 in... .30 .55 1.85 6.00

Color Magic. Golden yellow and deep maroon-red blooms are carried on the same plant. Makes very attractive display..... .35 1.00 3.00 8.50

Cupid Yellow. 2 in. "mum" blooms; primrose yellow; odorless..... .35 1.50 4.50

Cupid Orange. Same as above except color..... .40 1.60 4.90

Cupid Mixed. Orange, gold and yellow shades..... .35 1.50 4.50

***Fleck's Extra Dwarf Harmony.** Orange with maroon guard petals.. .30 .55 1.85 6.00

Golden Harmony. Solid bright golden yellow..... .25 .50 1.75

Lemon Drop (New). Full, double canary yellow. 9 in. Compact and profuse bloomer. May replace Pigmy. Excellent bedding plant sales as first bloom is fully double. .60 2.00 7.00

Little Giants. Mixture of African types..... .35 .65 1.95 6.50

***Melody.** Brilliant orange. 12 in... .25 .50 1.75 5.00

Pot O'Gold. Deep golden orange, 100 per cent double. Makes one of the finest pot plants..... .35 .65 1.95 6.50

***Scarlet Glow.** Bright scarlet red. 12 in..... .30 .55 1.85 6.00

***Spry.** Yellow crested center with red guard petals..... .30 .55 1.85 6.00

***Sunkist.** Orange, dwarf and compact, early bloomer..... .30 .55 1.85 6.00

Tangerine. Bright tangerine orange. Blooms 2 in. across. Plant height 15 in..... .50 1.50 4.50

***Yellow Pigmy.** Very dwarf, bright yellow. 6-8 in..... .30 .55 1.85 6.00

Choice Mixture French Types.... .35 .60 1.85 6.00

SPECIAL MIXTURE of above 7 most popular in this group marked with asterisk. Tr. pkt. 35c., $\frac{1}{4}$ oz. 60c., $\frac{1}{2}$ oz. \$1.00, oz. \$1.85, 4 ozs. \$5.90.

MORNING GLORY - See Ipomoea

MYOSOTIS—See page 15

NASTURTIUM

DOUBLE GLEAM—18 in.

Richly colored, fragrant flowers freely produced on long, strong stems. Fine for Spring combination work, window boxes and cut flowers.

175 S

Golden Gleam		Salmon Gleam
Orange Gleam	Mixture	Scarlet Gleam

Price of above: Oz. 30c., $\frac{1}{4}$ lb. \$1.00, lb. \$3.00

DOUBLE DWARF TYPE—12 in.

Fully as double and large as the Gleam type. Attractive, dwarf, compact.

175 S

Golden Globe. Golden yellow, sweet-scented.
Mahogany Gem. Deep mahogany.
Scarlet Globe. Sweet-scented fiery scarlet.
Dwarf Double Gem Mixed. Sweet-scented.

Oz. 35c., $\frac{1}{4}$ lb. \$1.20, lb. \$3.50

NEMESIA

COMPACTA GRANDIFLORA

Compact and Dwarf Varieties—6 to 8 in.—90,000 S

Branches freely from base, making attractive, rounded specimens. Ideal for pots and short combination make-ups.

Blue Gem. Bright blue, compact.

Fire King. Brilliant red.

White Queen.

Mixture of Above.

Triumph Choice Mixed. Attractive range of colors; very dwarf.

Prices any of above, each:

Tr. pkt. 35c., $\frac{1}{8}$ oz. 70c., $\frac{1}{4}$ oz. \$1.25, $\frac{1}{2}$ oz. \$2.25

NICOTIANA - Flowering Tobacco

Sweet-scented—24 in.—200,000 S

Affinis. Pure white.

Tr. pkt. 20c., $\frac{1}{4}$ oz. 35c., oz. 75c.

Affinis, Daylight Sensation Mixture. Brilliant color range never seen before in Nicotiana. Blooms remain open during daytime—another new feature.

Tr. pkt. 40c., $\frac{1}{4}$ oz. 95c., oz. \$3.15.

GREENHOUSE PANSIES

FLECK'S WINTER FLOWERING GIANTS

Tall growing greenhouse strain is especially produced for florists, for Winter and early Spring cut flowers. Good range of colors. Sweet-scented, long-stemmed, about 10 in. Blooms about 2 to 3 in. across. Does well from a July or August sowing.

$\frac{1}{2}$ tr. pkt. 65c., tr. pkt. \$1.10, 1/16 oz. \$1.50,
 $\frac{1}{8}$ oz. \$2.75, $\frac{1}{4}$ oz. \$4.90

NIEREMBERGIA - Dwarf Cup Flower



8 in.—5500 S per 1/32 oz.

Purple Robe. Rich, deep violet purple. Does not fade. Same growing habits as the Hippomanica variety.

Tr. pkt. 50c., 1/32 oz. \$1.75, 1/16 oz. \$3.25

NIGELLA



18 in.—11,000 S

Miss Jekyll (Love-in-a-Mist). Light blue.

Tr. pkt. 30c., $\frac{1}{4}$ oz. 45c., oz. \$1.00

Fleck's Fine Pansy Seeds 25,000 S

ALL THE BEST SWISS GIANTS

We offer seeds produced by specialists. No finer strains or selection offered anywhere.

Pansies as well as Violas can be started in January, for sale in pans or out of flats during late Spring in bloom.

Write for prices on pound lots



Pansies

SEPARATE COLORS

Pay Dirt. Largest golden yellow. Blooms have dark rays or tiny dark faces. Excellent growth habit and resistant to Summer heat. Tr. pkt. \$1.50, 1/16 oz. \$2.50, 1/8 oz. \$4.50, 1/4 oz. \$8.50, oz. \$29.50.

Alpenglow. Rich garnet and ruby shades with dark blotches.

Berna. Dark, velvety violet blue.

Blue Boy. See Celestial Queen.

Celestial Queen. Heavenly blue, a shade deeper than Blue Boy, and very large blooms.

Coronation Gold. Large, golden yellow without blotches or markings.

Firebeacon. Brick red.

Fireglow. Glowing bronze apricot.

Orange Giant. Orange yellow, or light orange.

Raspberry Rose. Carmine blotch on soft pink ground. Distinctive.

Rheingold. Deep golden yellow with large black blotches on lower petals.

Ullswater (Lake of Thun). Marine blue with darker blue blotches showing through.

White (Mont Blanc). Large pure white, free flowering.

Tr. pkt. 75c., 1/16 oz. \$1.10, 1/8 oz. \$1.75, 1/4 oz. \$3.00, oz. \$9.85, 4 ozs. \$30.00

GREENHOUSE PANSIES—See page 18.

Fleck's Giant Mixture of Dwarf Strains. Swiss types very dwarf, compact; extra early flowering. Complete range of colors, running to brighter sorts.

Tr. pkt. 80c., 1/8 oz. \$1.65, 1/4 oz. \$2.95, oz. \$10.00, 1/4 lb. \$32.00

Fleck's Jumbo Mixed (Mastodon Strain). An early, large-flowered mixture, producing long-stemmed flowers. Grown from originator's stock specially for us. Wide range of colors.

Tr. pkt. 80c., 1/8 oz. \$1.80, 1/4 oz. \$3.40, oz. \$12.00, 1/4 lb. \$36.00

Fleck's Mammoth Exhibition. Choice mixture of large-flowered Swiss Strains.

Tr. pkt. 70c., 1/8 oz. \$1.60, 1/4 oz. \$2.80, oz. \$10.00

Fleck's Rainbow Mixture. Brilliant, large-flowered varieties compounded for the large grower.

Tr. pkt. 60c., 1/8 oz. \$1.30, 1/4 oz. \$2.50, oz. \$9.00, 1/4 lb. \$29.00

America Mixture. Extremely bright, early flowering and dwarf. Good variety of colors.

Tr. pkt. 65c., 1/8 oz. \$1.50, 1/4 oz. \$2.75, oz. \$10.00

Engelmann's Giant Mixed. Early, compact, robust grower; flowers average nearly 4 in. across on heavy stems. Both light and dark shades, good percentage of bronze and reds.

Tr. pkt. \$1.00, 1/8 oz. \$2.10, 1/4 oz. \$4.00, oz. \$13.50

Macdonald's Scottish Exhibition Strain. 4 in. flower, new and varied color combinations, running to intense, heavily blotched flowers.

Tr. pkt. 80c., 1/8 oz. \$2.20, 1/4 oz. \$4.00, oz. \$14.00

Maple Leaf Giants Super Mixture. Large-flowered, good bloomer. Compact, luxurious, dark green foliage and large leaves.

Tr. pkt. 65c., 1/8 oz. \$1.65, 1/4 oz. \$3.00, oz. \$10.00

Masterpiece. Ruffled and frilled giant blooms. Nice range of colors.

Tr. pkt. 70c., 1/8 oz. \$1.50, 1/4 oz. \$2.80, oz. \$10.50

Swiss Giants, Choice Mixed. From stock seed of European and domestic strains with straight colors of Roggeli type added, makes this a really high grade mixture. Flowers average 3 to 4 in.

Tr. pkt. 65c., 1/8 oz. \$1.25, 1/4 oz. \$2.25, oz. \$8.00

Super Swiss Giants Mixed, Improved. An improvement on the original strain. Enormous flowers, fine color range, well marked, many ruffled and curled. Long stems. Sturdy grower.

Tr. pkt. 80c., 1/8 oz. \$1.45, 1/4 oz. \$2.75, oz. \$9.00

Fleck's Petunias All Doubles

About 4000 seeds to 1/64 ounce

PAN-AMERICAN DOUBLES



Petunia, Allegro

Allegro. Large, fully double flowers of clear, bright salmon are carried on fairly dwarf plants. A new and attractive color in the All-Double class.

Caprice. Large, deep rose flowers are freely produced on bushy, compact plants of uniform habit.

Minuet. Discontinued. We suggest Burpee Orchid.

Nocturne. Deep Elk's Pride purple. The medium large flowers are borne on vigorous plants.

Rhapsody. Deep wine purple. Does not fade. Compact, dwarf.

Sonata. Extra large, pure white flowers. Not as compact in growth as above two, and should be pinched to induce branching.

Each, above: $\frac{1}{2}$ tr. pkt. \$2.75, tr. pkt. \$4.50, 1/128 oz. \$8.50,
1/64 oz. \$16.00



Pan-American Doubles in Combination

Glorious Mixture. Contains both tall and dwarf types; our own blend of all colors. In transplanting, be sure to use both large and small seedlings, thus insuring a complete range of colors.

$\frac{1}{2}$ tr. pkt. \$2.75, tr. pkt. \$4.00, 1/128 oz. \$7.60,
1/64 oz. \$14.45, 1/32 oz. \$28.00

"CULTURAL HINTS" FOR DOUBLES

Sowing Dates—For pots, November for 5's, and December for 4's for late April and May; for combinations, December and January for 2½'s and 3's for April and May; for bedding, December and January for April and May sales.

Germination—Sterilized peats and leafmolds (if not strongly acid) are good mediums; so are various sterilized mixtures of soil with peat or other organic matter. Don't cover the seed except for perhaps a sheet of paper to keep from drying out. The surface of the flat must be moist till the roots have dug down into the soil. Keep them at 60-65 degs. nights till germination takes place, then 48-50 degs. and dry, but not wilting.

When transplanting a mixed flat, use the smaller seedlings as well as the larger ones, so you will obtain all colors.

FLECK'S SPECIAL ALL DOUBLES MIXTURE

Our own blend of all Doubles—America, Canadian, Pan-American, Sakata's and Colossal, with special emphasis on popular fast selling colors.

$\frac{1}{2}$ tr. pkt. \$2.50, tr. pkt. \$4.00, 1/128 oz. \$7.50,
1/64 oz. \$14.45, 1/32 oz. \$27.50

COLOSSAL



Shades of Pink and Salmon Rose, Improved.

$\frac{1}{2}$ tr. pkt. \$1.75, tr. pkt. \$3.00, 1/128 oz. \$6.50,
1/64 oz. \$11.75, 1/32 oz. \$22.00

Fleck's Petunias All Doubles

About 4000 seeds to 1/64 oz.

SAKATA'S NEW GIANT DOUBLES



SAKATA'S New Giant Doubles

Giant Formula Mixture. All colors in this new class.

These new Giants are a well developed strain far superior to the standards. Dwarf and compact with blooms nearly all 5 inches across. Full double and fringed.

Giant Cheerful. Charming clear pink.

Giant Sunset. Brilliant deep salmon, shaded scarlet.

Giant Purple Queen. Rich purple, shaded velvety blue.

Giant White Swan. Pure white.

A letter of interest from one of our friends in Conn. "The Double Petunia seed we received from you germinated the best we've ever seen. The others also did very well."

SAKATA'S STANDARD DOUBLES

Gaiety. Large, full, double blooms, beautifully striped and mottled with bright rose and white. Extra dwarf and compact.

½ tr. pkt. \$2.75, tr. pkt. \$4.75, 1/128 oz. \$8.00,
1/64 oz. \$15.00, 1/32 oz. \$29.00

Victorious Clear Pink. New strain, dwarf and compact. Clear pink, fully double, well fringed blooms; 3½ in.

½ tr. pkt. \$2.50, tr. pkt. \$4.50, 1/128 oz. \$7.50,
1/64 oz. \$14.50

Victorious All-Double Mixed. Our own hand blended formula. Includes Gaiety and Clear Pink.

½ tr. pkt. \$2.50, tr. pkt. \$4.40, 1/128 oz. \$7.00,
1/64 oz. \$13.60, 1/32 oz. \$26.00, 1/16 oz. \$50.00

Attraction. Rich carmine rose and white. New strain. Remarkably uniform.

Blue Brocade. Reselected. Velvety violet blue.

Orchid Beauty. Orchid; heavily veined deep violet.

Royal Purple. New rich deep purple.

White. Pure white. Excellent dwarf white.

All above, each:

½ tr. pkt. \$2.25, tr. pkt. \$4.00, 1/128 oz. \$6.50,
1/64 oz. \$12.00, 1/32 oz. \$22.00

CANADIAN MIXTURE

100% double, dwarf, improved mixture. Colors range from Pink and Salmon to White, Lavender to Purple.

½ tr. pkt. \$2.00, tr. pkt. \$3.50, 1/128 oz. \$6.65, 1/64 oz. \$12.60,
1/32 oz. \$24.00

Canadian Queen. Fine, true pink double, somewhat lighter than Rose of Canada. The large, well ruffled flowers are carried nicely above the compact, bushy plants.

½ tr. pkt. \$2.75, tr. pkt. \$4.50, 1/128 oz. \$8.50,
1/64 oz. \$16.00

AMERICA

Compact and uniform, 1 foot high, 1½ feet across. Rose pink to deep rose flowers, 2 inches across, 100% double. Excellent for beds, borders, edgings as well as pot plants. Stems sometimes 10 inches long which can be cut for low vase or table work.

½ tr. pkt. \$1.35, tr. pkt. \$2.50, 1/128 oz. \$4.50,
1/64 oz. \$8.00, 1/32 oz. \$14.45

Burpee Orchid. Orchid lavender. Makes a nice pot plant.

½ tr. pkt. \$2.75, tr. pkt. \$4.50, 1/128 oz. \$8.50,
1/64 oz. \$16.00

Petunias, Dwarf, Large Fringed and Ruffled

Ballerina. Extra large, frilled blooms. Clear, intense salmon.

Vigorous and free branching.

$\frac{1}{2}$ tr. pkt. \$1.35, tr. pkt. \$2.50, 1/128 oz. \$4.50,
1/64 oz. \$8.00

Blue Mantle. New F₁ Hybrid. Fringed. Rich velvety violet blue. Uniform, dwarf and compact. Rated the best large flowering violet blue.

$\frac{1}{2}$ tr. pkt. \$1.75, tr. pkt. \$3.00, 1/128 oz. \$5.50



Petunia, Bolero

Bolero. Gorgeous carmine-rose pink. Flowers giant ruffled and fringed, 3 $\frac{1}{2}$ to 4 in. across. Plants are uniform, dwarf and compact. Outstanding either as a pot plant or in the garden where it blooms profusely all Summer. More vigorous and larger-flowered than setting sun and the other Dwarf Erfurts.

$\frac{1}{2}$ tr. pkt. \$1.35, tr. pkt. \$2.50, 1/128 oz. \$4.50,
1/64 oz. \$8.00

Carnival. We recommend Ballet mixture. *See next page.*



Petunia, Fire Dance
(See Color Plate on Cover)

Fire Dance. New F₁ Hybrid. Rich scarlet red with golden yellow throat. This strikingly beautiful and dazzling color with the bold flashlight throat should become very popular. Brighter, deeper and richer than Tango. Daintily fringed. Compact and free blooming, dwarf.

$\frac{1}{2}$ tr. pkt. \$1.75, tr. pkt. \$3.00, 1/128 oz. \$5.50,
1/64 oz. \$10.00

CAROUSEL. A lovely bright purple and white variegated Grandiflora Petunia.

$\frac{1}{2}$ tr. pkt. \$1.00, tr. pkt. \$1.75, 1/64 oz. \$3.30,
1/32 oz. \$6.00, 1/16 oz. \$11.00

Crusader. Striped rose pink on white. Very attractive. Gaily striped. Quite uniform and sells well. F₁ Hybrid.

$\frac{1}{2}$ tr. pkt. \$1.60, tr. pkt. \$2.95, 1/128 oz. \$5.35,
1/64 oz. \$9.80



Petunia, Fleck's Extra Dwarf Giants

DWARF GIANTS No. 1

Fleck's Extra Dwarf Giants. 4 to 6 in. This fine strain was developed and improved on the Ramona strain. It stays dwarf. Bright color range. Exceptionally fine for pot plant sales.

$\frac{1}{2}$ tr. pkt.	\$1.00	1/32 oz.	\$4.95
Tr. pkt.	1.75	1/16 oz.	9.45
1/64 oz.	2.75		

DWARF GIANTS No. 2

Ramona Strain, Reselected. Dwarf, compact, ruffled and fringed flowers. Special color blend.

$\frac{1}{2}$ tr. pkt.	\$0.70	1/32 oz.	\$3.20
Tr. pkt.	1.25	1/16 oz.	5.70
1/64 oz.	2.00		

Flirt. A new F₁ Hybrid. Bright pink carmine blooms of medium size. Vigorous, compact and free blooming.

$\frac{1}{2}$ tr. pkt. \$1.35, tr. pkt. \$2.50, 1/128 oz. \$4.50

Petunias, Dwarf, Large Fringed and Ruffled

Fringed Snowstorm. Pure white, with slight touch of gold in throat. Free bloomer.

Tr. pkt. \$1.00, 1/64 oz. \$2.35, 1/32 oz. \$3.75,
1/16 oz. \$6.75

Lace Veil. Pure white, large flowers with fringed petals, many waved, compact.

Tr. pkt. 75c., 1/64 oz. \$1.75, 1/32 oz. \$3.00, 1/16 oz. \$5.50



La Paloma

La Paloma. Pure white with yellow throat. Large, well fringed flowers, 100% Grandiflora. More uniform and vigorous than its predecessor, Snowwhite. Sown in December, La Paloma makes a gorgeously beautiful Easter pot plant.

½ tr. pkt. \$1.35, tr. pkt. \$2.50, 1/128 oz. \$4.50,
1/64 oz. \$8.00



Tango

PRIMA DONNA. New F₁ Hybrid. Bright rose pink, 3½ to 4 in. blooms, fringed. Dwarf, compact and vigorous. Spreading habit. Companion to Ballerina.

½ tr. pkt. \$1.30, tr. pkt. \$2.50, 1/128 oz. \$4.50,
1/64 oz. \$8.00, 1/32 oz. \$15.00, 1/16 oz. \$29.00

Tango. Bright, deep scarlet salmon. The brightest color in Petunias. Actually deeper in color than Carmencita, also larger flowered and although not quite so dwarf, makes a blazing mass of color in the garden; still dwarf enough for pot plants. A truly sensational Petunia wherever grown.

½ tr. pkt. \$1.35, tr. pkt. \$2.50, 1/128 oz. \$4.50,
1/64 oz. \$8.00

Theodosia. Brilliant rose pink, full open throats; improved. Tr. pkt. 60c., 1/64 oz. \$1.50, 1/32 oz. \$2.75, 1/16 oz. \$4.95

SPECIAL MIXTURES

Ballet Mixture. This is a blend of Ballerina, Bolero, Crusader, La Paloma, Prima Donna, Tango with an orchid and deep purple added to complete color range.

½ tr. pkt. \$1.30, tr. pkt. \$2.50, 1/128 oz. \$4.50,
1/64 oz. \$8.00, 1/32 oz. \$15.00, 1/16 oz. \$29.00

Fleck's Special Florist Mixture of Choice Salmon Rose Shades. Exceptionally large blooms averaging 5 to 6 in. with shallow open throat, free flowering, sturdy plants. Beautiful veined markings.

Tr. pkt. 90c., 1/64 oz. \$1.90, 1/32 oz. \$3.25, 1/16 oz. \$5.90

Ruffled Monsters Exquisite Mixed. Dwarf light and dark shades.

Tr. pkt. 90c., 1/64 oz. \$1.80, 1/32 oz. \$3.50, 1/16 oz. \$6.50

Ruffled Giants Mixed. Our own hand blended mixture of all ruffled and fringed varieties including some of the newer ones.

Tr. pkt. \$1.50, 1/64 oz. \$3.50, 1/32 oz. \$6.50
1/16 oz. \$12.00



Ruffled Monster

Petunias, Dwarf, Large Fringed and Ruffled

LARGE—Singles Plain Edged

Some of these are somewhat ruffled.

BRILLIANTY. F₁ Hybrid. A showy bedder of brilliant crimson red with carmine shade. Compact 10 in., with blooms 2 3/4 in. Vigorous.

1/2 tr. pkt. \$1.00, tr. pkt. \$1.75, 1/128 oz. \$3.50,
1/64 oz. \$6.50, 1/32 oz. \$11.70, 1/16 oz. \$20.00

DAZZLER. Unusual brilliant dazzling scarlet. Dwarf.
Tr. pkt. 60c., 1/64 oz. \$1.50, 1/32 oz. \$2.75

ELK'S PRIDE IMPROVED. Rich velvety purple. Uniform and dwarf.

Tr. pkt. 85c., 1/64 oz. \$1.90, 1/32 oz. \$3.40, 1/16 oz. \$5.75

MINSTREL (Sakata, New). F₁ Hybrid. Violet Purple and White Star. Variable from nearly all white to nearly all violet. 15 in. spreading habit. Erect stems. Blooms 2 1/2-3 in. with edges waved.

Tr. pkt. \$1.00, 1/128 oz. \$2.25, 1/64 oz. \$3.50



Popcorn

POPCORN. Large-flowered white Petunia which remains *really dwarf* and compact. Popcorn has all the fine qualities of Snowstorm, but stays dwarf.

1/2 tr. pkt. \$1.00, tr. pkt. \$1.75, 1/64 oz. \$3.30,
1/32 oz. \$6.00, 1/16 oz. \$11.00

PURPLE PRINCE. Very deep blue.

Tr. pkt. 65c., 1/64 oz. \$1.60, 1/32 oz. \$2.95

SNOWSTORM IMPROVED. Dwarf habit, mammoth flowers, pure white.

Tr. pkt. 85c., 1/64 oz. \$1.90, 1/32 oz. \$3.40, 1/16 oz. \$5.75

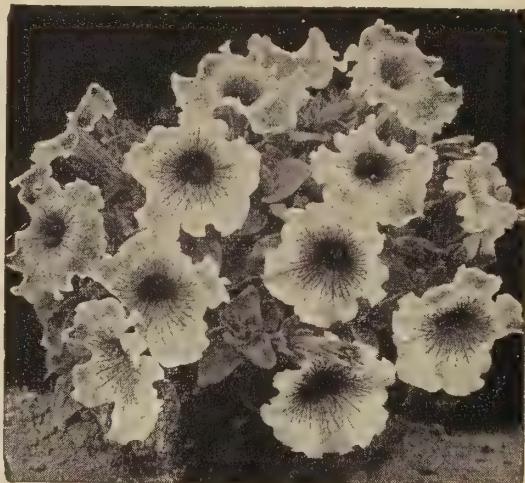
WHITE MAGIC. F₁ Hybrid. This new, large ruffled Grandiflora is a big improvement over Popcorn. Dwarf and heavy producer.

1/2 tr. pkt. \$1.75, tr. pkt. \$3.00, 1/128 oz. \$5.50,
1/64 oz. \$10.00.

MIXED. Exquisite blend of our own in all the above colors including Popcorn.

Tr. pkt. \$1.00, 1/64 oz. \$2.25, 1/32 oz. \$4.00,
1/16 oz. \$7.50, 1/8 oz. \$14.00

RUFFLED GRANDIFLORAS



Petunia, Martha Washington

Little Giants Mixed. Very compact plants, completely covered for long season with small, ruffled blooms in all shades. 10 in. Fine for bedding and combination work.

Tr. pkt. 75c., 1/64 oz. \$1.50, 1/32 oz. \$2.75, 1/16 oz. \$5.00

Martha Washington. Blush pink with throat veined wine red. Extra large flowers.

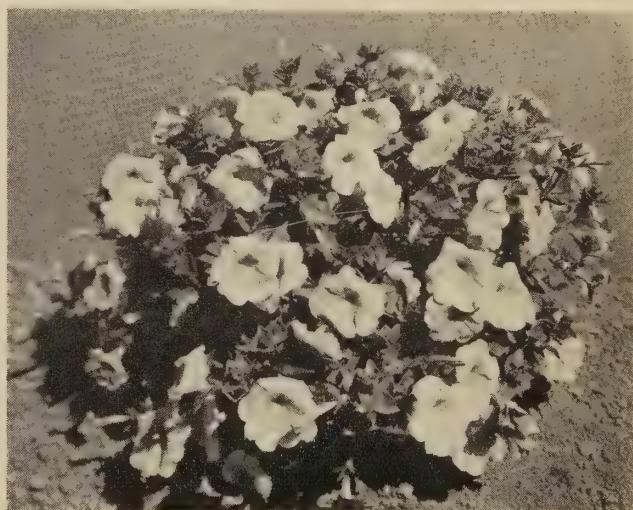
Tr. pkt. 75c., 1/32 oz. \$1.50, 1/16 oz. \$2.75

Pink Frills. Reselected from the Little Giants mixture. Profuse bloomer. Brilliant pink shades of frilled flowers. Early and compact plants.

Tr. pkt. \$1.00, 1/64 oz. \$1.75, 1/32 oz. \$3.00, 1/16 oz. \$5.50

GRANDIFLORAS - Plain Edge

(Complete list, next page)



Linda (Salmon Pink)

LINDA. An F₁ Hybrid. Somewhat more dwarf and a shade lighter than the well-known F₁ Hybrid bedding Petunia, Silver Medal, and a definite improvement over that variety,

1/2 tr. pkt. \$1.00, tr. pkt. \$1.75, 1/128 oz. \$3.50,
1/64 oz. \$6.50, 1/32 oz. \$11.50

Petunias, Grandiflora, Multifloras, Dwarf

All the Best and New Bedding Varieties

***Admiral.** Rich violet blue, wavy and ruffled. One of the finest Petunias.

Tr. pkt. 75c., 1/64 oz. \$1.65, 1/32 oz. \$2.90, 1/16 oz. \$5.25,
1/8 oz. \$9.50

Alderman. Clear deep violet blue. An old favorite.

Tr. pkt. 40c., 1/8 oz. 75c., 1/4 oz. \$1.35, oz. \$4.25

***Bright Eyes.** Brilliant rose pink with white vein. Make compact spreading plants literally covered with miniature Rosy Morn blooms.

Tr. pkt. 60c., 1/8 oz. \$1.15, 1/4 oz. \$2.00, oz. \$6.50



Celestial Rose

***Celestial Rose, Reselected.** Improved, deep rose, larger flowers. Very compact.

Tr. pkt. 60c., 1/8 oz. \$1.15, 1/4 oz. \$2.00, oz. \$6.50

FIRE CHIEF. Scarlet to salmon rose.

Tr. pkt. 50c., 1/16 oz. \$1.25, 1/8 oz. \$2.85, 1/4 oz. \$5.00

***Glow.** Brilliant carmine scarlet, excellent for mass plantings or borders.

Tr. pkt. 50c., 1/16 oz. \$1.25, 1/8 oz. \$2.00, 1/4 oz. \$3.75,
oz. \$13.50

***Heavenly Blue (Silver Blue).** A fine, reselected rich light blue.

Tr. pkt. 50c., 1/8 oz. \$1.00, 1/4 oz. \$1.75, oz. \$6.00

King Henry. Rich velvety red, extra dwarf, large flowered.

Tr. pkt. 75c., 1/32 oz. \$1.50, 1/16 oz. \$2.75, 1/8 oz. \$5.25,
1/4 oz. \$10.00

LIPSTICK. A shade between Glow and Topaz Queen.

Tr. pkt. 50c., 1/16 oz. \$1.65, 1/8 oz. \$2.90, 1/4 oz. \$5.00

***Peach Red.** Rich salmon rose.

Tr. pkt. 50c., 1/8 oz. \$1.80, 1/4 oz. \$3.25, oz. \$11.00

PINK SENSATION. New. Clear pink. Flower size in the medium class. Uniform, free flowering and vigorous.

1/2 tr. pkt. \$1.00, tr. pkt. \$1.75, 1/128 oz. \$3.50,
1/64 oz. \$6.50, 1/32 oz. \$11.50

***Rose of Heaven, Improved.** Beautiful rose pink.

Tr. pkt. 40c., 1/8 oz. 70c., 1/4 oz. \$1.15, oz. \$3.50

Rosy Morn Improved. Bright rose, large flowers with white throat.

Tr. pkt. 50c., 1/8 oz. 90c., 1/4 oz. \$1.60, oz. \$5.50

***Salmon Supreme.** A distinct, clear salmon pink; attractive.

Tr. pkt. 50c., 1/32 oz. \$1.50, 1/16 oz. \$2.75

SILVER MEDAL. See Linda.

***Snowball Improved.** Dwarf white.

Tr. pkt. 75c., 1/16 oz. \$2.75, 1/8 oz. \$5.00, 1/4 oz. \$9.00

Snow Queen. Pure white, free flowering; compact, spreading habit.

Tr. pkt. 50c., 1/8 oz. \$1.00, 1/4 oz. \$1.75, oz. \$6.00

MULTIFLORAS

Apache. New F₁ Hybrid. Bright rose-red with yellowish throat.

1/2 tr. pkt. \$1.00, tr. pkt. \$1.75, 1/128 oz. \$3.50,
1/64 oz. \$6.50, 1/32 oz. \$11.70, 1/16 oz. \$20.00

COMANCHE. New; wonderful dwarf; compact grower. 15 in. Scarlet red, deepest red Petunia. Base branching, spreads to 18 in. Free blooming, 2 1/2 to 2 3/4 in. across.

1/2 tr. pkt. \$1.00, tr. pkt. \$1.75, 1/128 oz. \$3.50,
1/64 oz. \$6.50, 1/32 oz. \$11.60, 1/16 oz. \$20.00

LINDA—Opposite page.

MOHAWK. Bright rose pink. Same habits as Comanche. 1/2 tr. pkt. \$1.00, tr. pkt. \$1.75, 1/128 oz. \$3.50,
1/64 oz. \$6.50, 1/32 oz. \$11.70

PALE FACE. New F₁ Hybrid. Pure white. Very profuse bloomer. Outstanding.

1/2 tr. pkt. \$1.00, tr. pkt. \$1.75, 1/128 oz. \$3.50,
1/64 oz. \$6.50, 1/32 oz. \$11.70, 1/16 oz. \$20.00

ROSE CHARM. New hybrid bedding variety. Bright rose pink. Blooms earlier than Celestial Rose and more profusely. A most desirable pot plant.

1/2 tr. pkt. \$1.00, tr. pkt. \$1.75, 1/128 oz. \$3.50,
1/64 oz. \$6.50, 1/32 oz. \$11.70

SIOUX. New F₁ Hybrid. Deep glowing salmon. Profuse bloomer. Excellent.

1/2 tr. pkt. \$1.00, tr. pkt. \$1.75, 1/128 oz. \$3.50,
1/64 oz. \$6.50, 1/32 oz. \$11.70

SPECIAL MIXTURES

POW WOW. Blended mixture of the Indians. Apache, Comanche, Pale Face, Sioux and Mohawk.

1/2 tr. pkt. \$1.25, tr. pkt. \$2.00, 1/128 oz. \$3.75,
1/64 oz. \$7.00, 1/32 oz. \$12.45, 1/16 oz. \$23.00

Grandifloras No. 1. Our own formula blend of all the new and recent introductions on this page, including Linda.

Tr. pkt. \$2.00, 1/128 oz. \$3.80, 1/64 oz. \$6.90,
1/32 oz. \$13.00, 1/16 oz. \$25.00

Grandifloras No. 2. Excellent formula blend of all on this page marked with asterisk (*).

Tr. pkt. \$1.00, 1/32 oz. \$2.00, 1/16 oz. \$3.75, 1/8 oz. \$5.50,
1/4 oz. \$10.00

Petunias, Grandifloras

220,000 Seeds per Ounce

STAR FLOWERED



Cream Star. Star shaped, white

Tr. pkt. 50c., $\frac{1}{8}$ oz. \$1.25, $\frac{1}{4}$ oz. \$2.25

ELK'S STAR. New, 1951. Deep velvety crimson with white star. Uniform. Very attractive. A big improvement over Howard's Star.

Tr. pkt. 50c., 1/16 oz. \$1.25, $\frac{1}{8}$ oz. \$2.25, $\frac{1}{4}$ oz. \$4.00

Howard's Star Improved. Dark velvety purple, white star.

Tr. pkt. 50c., 1/16 oz. 90c., $\frac{1}{8}$ oz. \$1.60, $\frac{1}{4}$ oz. \$2.00

Norma. Blue, white star, very compact.

Tr. pkt. 40c., $\frac{1}{8}$ oz. \$1.40, $\frac{1}{4}$ oz. \$2.50

Twinkles. Rose, white star.

Tr. pkt. 50c., $\frac{1}{8}$ oz. \$1.00, $\frac{1}{4}$ oz. \$1.75, oz. \$6.00

Star Flowered Mixture. Specially compounded for the florist desiring all the star varieties. Our mixture includes the new Elk's Star.

Tr. pkt. 50c., $\frac{1}{8}$ oz. \$1.35, $\frac{1}{4}$ oz. \$2.00, oz. \$6.00



Petunia, Bright Eyes

See previous page

HYBRIDA ERECTA 18 in.

TALL SINGLES



Flaming Velvet

Flaming Velvet. Reselected crimson. Similar to King Henry but more spreading habit; fine for bedding. Sometimes called Velvet Ball.

Tr. pkt. 60c., $\frac{1}{8}$ oz. \$1.00, $\frac{1}{4}$ oz. \$1.90, oz. \$5.50

Radiance. Cerise rose with underlying salmon. Throat is golden yellow where bloom starts to flare.

Tr. pkt. 60c., $\frac{1}{8}$ oz. \$1.00, $\frac{1}{4}$ oz. \$1.90, oz. \$5.50



Radiance

HYBRIDA PENDULA (Balcony)

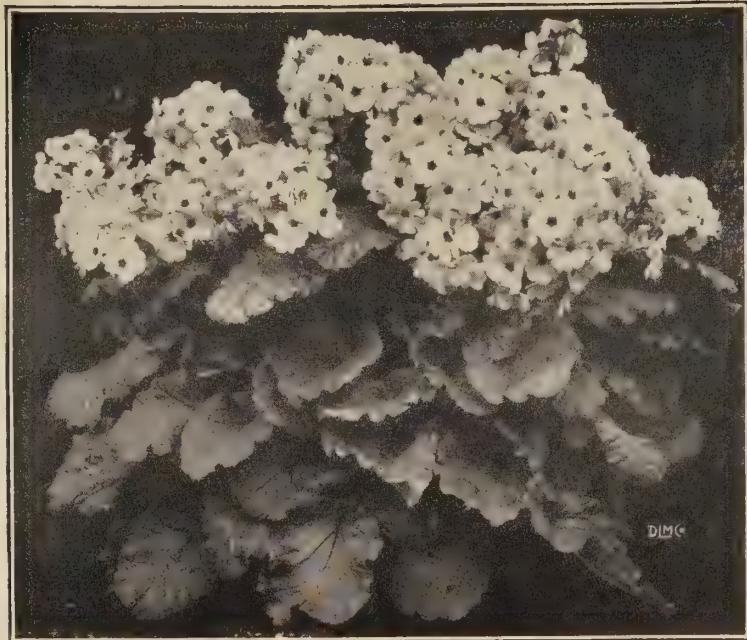
Crimson

Deep Blue

White Mixture

Price of Balcony Petunias:

Tr. pkt. 40c., $\frac{1}{8}$ oz. 75c., $\frac{1}{4}$ oz. \$1.45, oz. \$4.65



Primula Obconica

PHLOX - Drummondii

15,000 S



Phlox

FLECK'S SPECIAL STRAIN

IMPROVED DWARF PHLOX

NANA COMPACTA—6 to 8 in.

Dwarf, compact habit; excellent for low bedding and border work.

This mixture contains a riot of fast selling colors, including beautiful pastel shades and starred varieties. It is dwarf—6 to 8 inches. Bushy, compact.

Report from trials at Penna. State College states: "Very dwarf and compact plants." "Color range is excellent and very bright." "We rated it a very excellent sample."

Florists tell us it is better than "Globe." Plants sell on sight. Supply limited—order now.

Tr. pkt. 60c., $\frac{1}{8}$ oz. \$1.40, $\frac{1}{4}$ oz. \$2.50, oz. \$8.00

CUSPIDATA, STARRED AND FRINGED

Make very attractive little plants in an almost endless combination of colors. A favorite with the ladies.

Superb Mixture. Novel star-like flowers.

Tr. pkt. 25c., $\frac{1}{4}$ oz. 60c., $\frac{1}{2}$ oz. \$1.00, oz. \$1.80

PRIMULAS

Finest European and American Strains

We offer the newer and much improved introductions of specialists in Primulas. Seeds sown in June will make good plants for Christmas and January. September sowing for Spring sales. Sow in sterilized soil with low nitrate content. No feeding until well established.

OBCONICA, GIANTS

4000 S per 1/32 oz.

Avalanche. White

Mueller. Crimson

Berlin Rose

Salmon Rose

Coerulea. Blue

Violacea. Deep violet

Fasbender. Red

Fleck's Mixture

Prices of any of the above Primula Obconicas:

Tr. pkt. \$1.25, 1/64 oz. \$2.75, 1/32 oz. \$5.00

ERIKSSON'S PRIMULA MALACOIDES

Brilliancy Improved. Flowers open lavender, then turn to dark velvety red.

Glory of Riverside Improved. True rose-pink, a strong grower, and without a doubt the most valuable variety for all purposes.

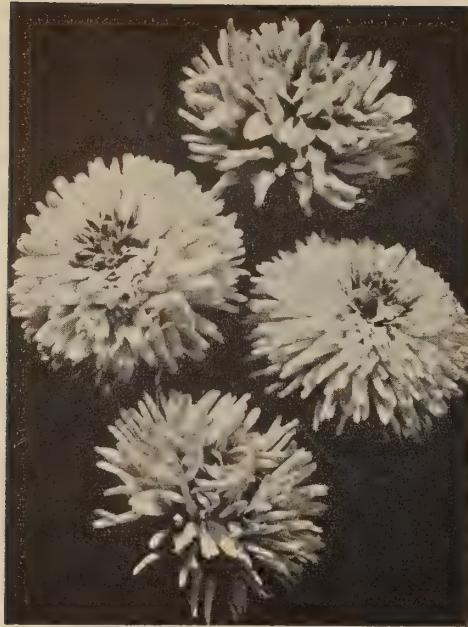
Mrs. Eriksson of Riverside. A glowing rose-red, a very strong grower with heavy flower stems and stiff foliage; large flowers in heavy clusters of medium height.

White Giant. An exceptionally strong grower and well adapted for combinations.

Mixture.

Each, above: Pkt. \$1.25, 1/64 oz. \$2.75, 1/32 oz. \$5.25

PERENNIAL PRIMULA—Listed on page 42.



Rudbeckia, Starlight

PEPPERS - See *Solanum*

PINKS -

See *Dianthus* in Perennial Section

POPPIES 70,000 S—24 in.

All Doubles, Shirley. Mixed beautiful shades.
Tr. pkt. 25c., $\frac{1}{4}$ oz. 65c., oz. \$2.25

For ICELAND and NUDICAULE POPPIES, see
PERENNIALS, page 42

PORTULACA (Rose Moss)

Easy to grow outdoors. Brilliant, vivid colors. Commences to bloom in about 35 days.

280,000 S

Fleck's Single Mixed.

Tr. pkt. 25c., $\frac{1}{4}$ oz. 70c., oz. \$2.35

Fleck's Double Mixed.

Tr. pkt. 30c., $\frac{1}{4}$ oz. \$1.25, oz. \$3.75

PYRETHRUM—See Perennial Section.

RUDBECKIA - Cone Flower

85,000 S

Free flowering, excellent outdoor cut flower.

Starlight. Fine for cutting, double and semi-double, free flowering color range from primrose to mahogany, some bicolors with mahogany centers. 3 ft.

Tr. pkt. 35c., $\frac{1}{4}$ oz. \$1.00, oz. \$3.25



Salvia, Fireball

SALVIA

SPLENDENS (Scarlet Sage)—12,000 S

Finest Strains

All bloom till frost. Some start earlier than others. We list them in this order.

Fireball. Extra early, dwarf, base branching and spreading habit. Blooms continuously till frost. 8 in.

Tr. pkt. \$1.50, $\frac{1}{8}$ oz. \$2.60, $\frac{1}{4}$ oz. \$4.00, $\frac{1}{2}$ oz. \$7.00,
oz. \$12.50

St. John's Fire. Earliest. Uniform, compact, dense scarlet spikes stand rigid and upright. 10 in.

Tr. pkt. 95c., $\frac{1}{8}$ oz. \$1.60, $\frac{1}{4}$ oz. \$2.70, $\frac{1}{2}$ oz. \$5.00,
oz. \$9.00

Blaze of Fire. Early flowering orange scarlet. Bushy plants. 12-14 in.

Tr. pkt. 85c., $\frac{1}{8}$ oz. \$1.25, $\frac{1}{4}$ oz. \$2.25, $\frac{1}{2}$ oz. \$3.85,
oz. \$7.00

America (Globe of Fire). Compact, dwarf and bushy, 18 in. plants. Brilliant scarlet, medium early.

Tr. pkt. 65c., $\frac{1}{8}$ oz. \$1.00, $\frac{1}{4}$ oz. \$1.90, $\frac{1}{2}$ oz. \$3.25,
oz. \$6.00, 4 ozs. \$20.00

Firebrand. Medium early. 18 in.

Tr. pkt. 85c., $\frac{1}{8}$ oz. \$1.25, $\frac{1}{4}$ oz. \$2.25, $\frac{1}{2}$ oz. \$3.50,
oz. \$7.25

Splendens, Tall Firecracker. 30 to 36 in. (Late.)

Tr. pkt. 45c., $\frac{1}{8}$ oz. 80c., $\frac{1}{4}$ oz. \$1.40, $\frac{1}{2}$ oz. \$2.50,
oz. \$4.50

BLUE VARIETIES—2400 S

While classed as perennials, will flower very well the first season from seed sown in early Spring.

Tr. pkt. $\frac{1}{4}$ oz. Oz

Farinacea. Rich bright blue; compact. Very effective in mass planting. Long, graceful stems. Also useful for cutting. 30 in. \$0.40 \$1.25 \$4.00

Royal Blue. Deep royal purple. Improved strain.50 1.45 5.00

PERENNIAL SALVIA—Page 43.



Saponaria



Scabiosa



Schizanthus

SALPIGLOSSIS - Painted Tongue

127,000 S

EMPEROR—Large Flowered. 3 ft.

Fine for cutting from a February sowing or later outdoors.

Emperor Mixed. Tr. pkt. 20c., $\frac{1}{4}$ oz. 40c., oz. \$1.00.

SANVITALIA - Creeping Zinnia

50,000 S—4 to 5 in.

Procumbens. Bright yellow, double flowers makes a fine dwarf edging plant. Tr. pkt. 30c., $\frac{1}{4}$ oz. 60c., oz. \$2.00.

SAPONARIA - Vaccaria

Annual—2 ft.—5500 S

Flowers resemble Gypsophila. Excellent for cutting.

Rose White

Oz. 35c., $\frac{1}{4}$ lb. \$1.00, lb. \$3.25

PERENNIAL SAPONARIA—Page 43.

SCABIOSA Grandiflora, Double (Pin Cushion Flower)

30 in.—4500 S

These are one of the real profit makers for the retail florist. Spring cut when grown in a cool house or sow outside for Summer cutting. Long stemmed. Wonderful color range.

Giant Hybrids Mixed. Contains all the new, large-flowered varieties. Tr. pkt. 25c., $\frac{1}{4}$ oz. 40c., oz. \$1.10.

PERENNIAL SCABIOSA—See Page 43

SHAMROCK

38,000 S

St. Patricks. Sow January 1 for 2 in. pot plants by March 17. Prefers cool growing. Use 4 seedlings to a pot. Tr. pkt. 20c., $\frac{1}{4}$ oz. 35c., oz. \$1.20, $\frac{1}{4}$ lb. \$3.50.

SHASTA DAISY - See Chrysanthemum
See Page 38

SNAPDRAGON - See Antirrhinum

SCHIZANTHUS - Butterfly Flower

60,000 S

GREENHOUSE STRAINS—For Pots and Cutting

Late Summer sowing for planting after early "Mums" will flower about March. If additional light is used from late October, blooming will commence in January. A January sowing will produce nice 3-inch pot plants for Spring combinations

Tr. pkt. $\frac{1}{8}$ oz. $\frac{1}{4}$ oz.

Fleck's Mammoth Flowered Exquisite

Mixed. Select greenhouse strain; extra large flowers; best color range. 18 in. \$0.90 \$2.25 \$4.00

Fleck's Dwarf Mixture. Compact dwarf

strain. Medium size flowers. Does best in 3 or 4 in. pot. Excellent for small pot sales. 14-16 in.60 1.65 2.75

SOLANUM - Jerusalem Cherry

15 in.—8,000 to 12,000 S according to variety

Fleck's Christmas Pepper. This makes a nice, compact plant with a profusion of cone-shaped fruit that is first green, changing to purple and finally red.

Tr. pkt. 50c., $\frac{1}{4}$ oz. \$1.50, oz. \$4.75

Christmas Cherry Improved. (Hlavacek's) Round fruit, red, compact.

Tr. pkt. 75c., $\frac{1}{4}$ oz. \$1.60, $\frac{1}{2}$ oz. \$2.60, oz. \$5.00

STATICE - Sea Lavender

24 to 28 in.—350 seed heads per ounce

Late Spring-flowering from Midwinter sowing. Grown outdoors in Southern climates for drying purposes.

Heavenly Blue. Bright sky blue.

Tr. pkt. 50c., oz. 95c., $\frac{1}{4}$ lb. \$3.00, lb. \$9.40

Market Growers' Blue.

Rosea Superba.

Snow Witch. Pure white, tall.

Yellow (Bonduelli). Deep yellow.

Superb Hybrids Mixture. This recent introduction contains a wide range of colors, some never before seen in Statice.

Each above, except Heavenly Blue:

Tr. pkt. 25c., oz. 60c., $\frac{1}{4}$ lb. \$1.75, lb. \$5.25

Suworowi (Russian or Rattail). Especially good for greenhouse forcing. Seed sown in January will produce fine, artistically curved bright rose pink "rattails" that work in nicely with many flower arrangements in late Spring.

Tr. pkt. 25c., $\frac{1}{4}$ oz. 60c., oz. \$1.75

PERENNIAL STATICE—Listed page 43.

STRAWFLOWER—See Helichrysum.

SUMMER POINSETTIA—See Amaranthus.

SUNFLOWER—See Helianthus.

SWEET-WILLIAM—See Dianthus.

Fleck's Stocks

Another one of our specialty seeds grown for us under contract by originators and specialists who are constantly improving the strains. Nothing finer offered anywhere.

18,500 seeds per ounce.

GIANT COLUMN EXCELSIOR

Our Greenhouse Produced Seeds—Superior Quality

We offer only the types and colors worth a growers' time, based on our observations and opinions of growers who should know.

NON-BRANCHING VARIETIES

Sowings from August to December will bloom in about 5 months. However, planting as late as February 15 will flower around June 15. These also do well outdoors.

WHITES

Fleck's White Improved, No. 30. Beyond doubt the best white today. Unsurpassed for doubleness, large flower head and pure white, velvety, fluffy florets. Very high double percentage; slightly taller and stronger grower than Ball No. 16.

Ball White Improved, No. 16. Pure white, extra large florets on well-formed, compact spikes.

PINKS

New Pacific Pink. New color. Bright, luminous salmon pink. Well formed, good stems.

½ tr. pkt. \$1.00, tr. pkt. \$1.60, ¼ oz. \$3.00,
¼ oz. \$5.50.

Fleck's Deep Rose. Brilliant deep rose; long stems.

Ball Supreme, No. 22. Rich, silvery rose, long, stiff stems.

Chamois Pink, No. 9. Attractive, buff and pink; two-tone.

REDS

Fleck's Ruby. Deep red.

YELLOWS

Ball Apricot, No. 20. Large-flowered, creamy buff.

Butterscotch, No. 26. Creamy yellow (Improved Gold Standard).

Deep Apricot. Shade darker than Ball Apricot.

Yellow Wonder. Rich, full toned cream yellow. Superior in every way to Gold Standard.

LILACS AND PURPLES

Lilac Lavender, No. 1. Large-flowered strain.

Silvery Lilac. Beautiful sheen.

Fleck's Purple Heart, No. 21. Bright violet purple, long-stemmed.

MIXTURE

Fleck's Special Blend. Compounded in proportion of colors as to their popularity.

Prices of any of the above (except New Pacific Pink):

½ tr. pkt. 75c., tr. pkt. \$1.25, ¼ oz. \$2.75, ½ oz. \$5.20, oz. \$9.85, ¼ lb. \$30.00

GIANT IMPERIAL (Super) Improved BISMARCK (Branching)

30 in.

Fine for cut or bedding, greenhouse or outdoors. An old favorite. Large, early flowered with good doubles percentage.

Chamois. Ivory tinted old rose to buff.

Elk's Pride. Rich, deep royal purple.

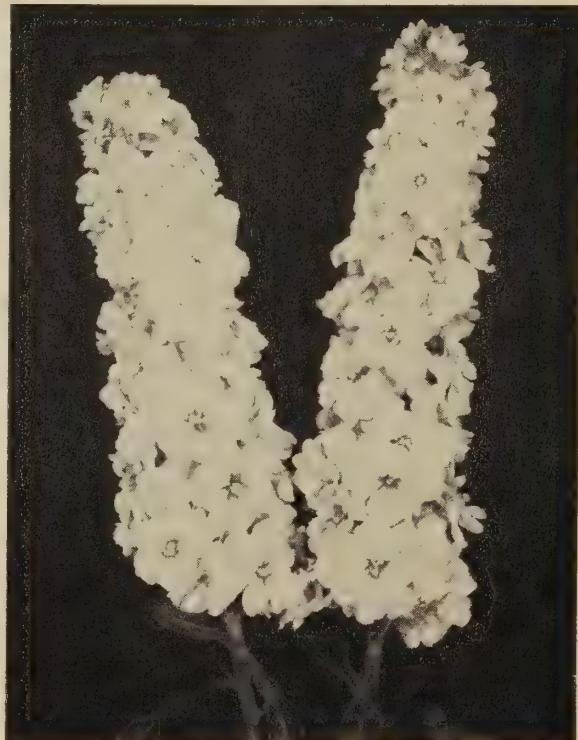
Florists Mixture.

Tr. pkt. 40c., ¼ oz. \$1.25, oz. \$4.00

Lavender. Silvery blue.

Rose (Rose Charm). Rich deep rose.

Shasta. Pure white, giant flowered.



Stock, Giant Column
Fleck's White Improved No. 30

TRYSONIC (Branching Column)

The high double percentage branching type.

White

Pacific Pink

Bright Rose

Chamois (Buff Pink)

Lilac Lavender

Trysonic Mixture

½ tr. pkt. \$1.00, tr. pkt. \$1.75, ¼ oz. \$2.90, ¼ oz. \$5.00

DWARF TEN WEEK

12 in. (Double)

Excellent for bedding and pot plants. Finished pots for Easter, like photo here—sell very well in place of Hyacinths.

Crimson

Dark Blue

White

Dwarf Ten-Week Mixture

Tr. pkt. 30c., ¼ oz. 75c., oz. \$2.25



TALL TEN WEEK

20 in.

Double Mixed. Beautiful blend of early flowering, high double percentage; wonderful for outdoor cut.

Tr. pkt. 30c. ¼ oz. 75c., oz. \$2.25, ¼ lb. \$7.00

Fleck's Sweet Peas

All the Best and Most Popular Varieties. All Good Profit Builders for Our Florist Friends

EARLY or WINTER FLOWERING VARIETIES 350 S.

Best results obtained from this group if planted in August and up to January 1. In the South and all frostless sections, sow 2 inches deep early in Fall and the plants will bloom, depending on location, from Christmas until late Spring.

PINK SHADES

Attraction. Clear bright salmon pink.

Ball Rose Supreme. Large, wavy flowers of bright, silvery rose pink. Fine producer.

Coed (New). Luminous, rich salmon pink. Large, bold flowers of fine substance. Vigorous and long stems, carrying 4 florets. A greatly improved Bridesmaid. $\frac{1}{2}$ oz. 75c., oz. \$1.30, 4 ozs. \$4.95.

Hiawatha. Deep rose self, exceptionally large flowers with four blooms to stem.

RED SHADES

Fiesta. Orange cerise.

Signal Red. Sunproof brilliant scarlet.

WHITES

Fleck's White Giant Wonder. Pure white, very large flowers placed in fours on long, strong stems. Good, strong grower. This is the largest in the early flowering class.

Gardenia. Dense paperwhite. Vigorous grower.

BLUE SHADES

Ball Blue Supreme. Bright blue.

Mrs. Herbert Hoover. Brilliant blue.

Waves. Mid-blue, large ruffled flowers.

LAVENDER SHADES

Triumph. Lilac mauve. Long-stemmed.

ORANGE SHADES

Treasure Island. Sparkling golden orange, large duplexed.

Prices on all of the above: $\frac{1}{2}$ oz. 35c., oz. 55c., $\frac{1}{4}$ lb. \$1.65, $\frac{1}{2}$ lb. \$3.10, lb. \$6.00



Fleck's White Giant Wonder

MIXTURE

Fleck's Special Early Winter Flowering Mixed of All the Varieties we list.

Oz. 50c. $\frac{1}{4}$ lb. \$1.50 $\frac{1}{2}$ lb. \$2.75 lb. \$5.45

Pound rate allowed on orders in $\frac{1}{4}$ lb. lots, if order totals \$1 lb. or more.

Fleck's Sweet Peas

ZVOLANEK'S MULTIFLOWERED STRAIN

Unusually free flowering. Long stems with many having 6 or 7 blooms. Ideal for early to midseason sowing (July to December). Their blooming season is long and prolific, doing well to the end of the season.

Rose	Light Rose	Salmon Pink	Orange Cerise
Lavender	White	Mixture	
El Capitan. New vivid carmine red		Whirlwind. Light pink	
	1/2 oz. \$1.50, oz. \$2.70, 4 ozs. \$9.50, lb. \$30.00		

CUTHBERTSON STRAIN, NEW SPRING FLOWERING VARIETIES

Only recommended for sowing after November 1. Begins flowering in early April. Will continue to bloom on longer stems than the early flowering varieties sown same date. January sowing is ideal for May and June flowering. Good producers. Also for outdoors.

BLUE SHADES

Danny. Deep blue.
Hazel. Bright blue.
Tommy. Medium blue.

WHITE

Janet. Frilled white.

PINK SHADES

Carol. Clear pink.
Evelyn. Salmon pink.
Lois. Rose pink.
Katie. Rose cream pink.

RED SHADES

Coline. Intense scarlet.
Jimmy. Dazzling scarlet.
ROSE SHADES

Billy. Rose on salmon.
Doris. Cherry rose.

LAVENDER SHADES

Frank G. Rosy lavender.
Jessie. Lilac mauve.

Mixed.

Prices on all the above Cuthbertson Strain: 1/2 oz. 35c., oz. 50c., 1/4 lb. \$1.60, 1/2 lb. \$2.85, lb. \$5.50

LATE or SUMMER FLOWERING VARIETIES

The original strong growing class largely used for Summer flowering. Profitable for outdoor cuttings by sowing not later than February 1st, placing 3 or 4 seedlings in a 3-inch pot and after hardening them in an outdoor frame, planting them out. Space rows 3 feet, the pot plants spaced about 8 inches, but before doing so, syringe and fumigate very thoroughly, being sure they are clean of aphis. They should be sprayed for aphis every 2 weeks until they flower. Failures are frequently due to not watching this point. Usually reach a height of 4-5 feet and are supported with wire and string as indoors. Water should be applied when necessary. Flowers freely the last two weeks of June on. The new Spring flowering class are also well suited for outdoor growing.

BLUE SHADES

Windsor Blue. Clear mid-blue, large flowers, heavy stems.
Capri. Light blue.

LAVENDER SHADES

Highlander. Clear, lovely lavender.

PINK, SALMON and ORANGE SHADES

Pinkie. Deep rose pink. Large flowers.
Discovery. Brilliant chamois-pink; a new and exquisite shade.
Crony. Soft, golden salmon.
Prince of Orange. Deep orange.

WHITE

Snow White. Immense flowers, pure paperwhite.

Prices on all the above Summer Flowering: 1/2 oz. 25c., oz. 40c., 1/4 lb. \$1.20, 1/2 lb. \$2.20, lb. \$3.90

Fleck's Special Blend Summer Flowering.
Oz. 30c., 1/4 lb. \$1.00, lb. \$3.40

Fleck's Special Summer Flowering Ruffled Varieties
Mixed. Oz. 40c., 1/4 lb. \$1.20, lb. \$4.00.

NOTE—On important items, we have noted the approximate number of seeds per ounce which may be helpful in ordering. For example: Sweet Peas—350 S means 350 seeds per ounce. However, this does not mean that you will get that many plants. Under favorable germinating conditions, most large seeds may germinate fifty to sixty per cent.

Nature in seeds is just the same as in people—no two exactly alike. Some items like Centaurea Candidissima, never germinate better than 20 to 30%. Common Petunias or Marigolds 80 to 95%. Yet, within the same group there may be a few as low as 60% from same years' crop.

A good many growers consider it best to order *at least* double the quantity of seeds for the plants they desire. It is good business to have more seedlings than needed, rather than to be short. The cost of seed is little compared to other considerations.



Thunbergia



Verbena



Tithonia



Vinca

Verbena 10,000 S

DWARF COMPACT HYBRIDS

Alba. White. **Fireball.** Bright scarlet.
Tr. pkt. 40c., $\frac{1}{4}$ oz. \$1.10, $\frac{1}{2}$ oz. \$1.70, oz. \$3.25

Pixie. Bright scarlet with cream eye. Very compact; large florets.
Tr. pkt. 50c., $\frac{1}{4}$ oz. \$1.35, $\frac{1}{2}$ oz. \$2.50, oz. \$4.50

Sparkle. Bright scarlet red with white eye. 2-2 $\frac{1}{2}$ in.; height, 9 in.; very uniform, showy and bright; production, heavy.
Tr. pkt. 65c., $\frac{1}{4}$ oz. \$1.90, oz. \$5.50

Crystal. New counterpart to Sparkle. Pure glistening snow white. A wonderful new Verbena.
Tr. pkt. 75c., $\frac{1}{8}$ oz. \$1.50, $\frac{1}{4}$ oz. \$2.50, oz. \$7.50

Fleck's Special Mixed. Blend of above five.
Tr. pkt. 60c., $\frac{1}{4}$ oz. \$1.90, oz. \$5.75

Fleck's Early Dwarf Upright Mixed. This new strain was especially developed for the bedding plant trade. Earliest bloomer of all Verbenas. Wide and unusual range of colors, including Apricot, Lavender and Mauve.

Tr. pkt. 55c., $\frac{1}{4}$ oz. \$1.60, oz. \$5.00

BUSH TYPE—8-10 in.

Salmon Queen. Brilliant salmon pink.
Starlight. Bright midblue, with creamy white eye.
Tr. pkt. 55c., $\frac{1}{4}$ oz. \$1.30, oz. \$4.00

ERECT, COMPACT TYPES

Blue Sentinel. Rich, blue shades.
Tr. pkt. 55c., $\frac{1}{4}$ oz. \$1.65, oz. \$5.00

THUNBERGIA - Black-eyed Susan

1100 S

Soak seeds in water for a week before sowing, to hasten germination.

Sow seed about February. Plants make showy little Climbers. Good for edging in porch boxes or hanging baskets, etc. Planted with Cobaeaes they cover the lower part of those plants and produce single white, yellow or orange flowers with dark centers, all Summer. This makes a very attractive combination.

Alata, Mixed.

Tr. pkt. 20c., $\frac{1}{4}$ oz. 35c., oz. \$1.10, 4 ozs. \$3.50
Gibsoni. Brilliant glowing orange, twice the size of Alata.
Tr. pkt. 85c., $\frac{1}{8}$ oz. \$1.85, $\frac{1}{4}$ oz. \$3.50

TITHONIA - Mexican Sunflower

3600 S

Torch. Single, bright orange flowers with yellow discs. Bush form plants. Early. Heat resistant. Free flowering.
Tr. pkt. 40c., $\frac{1}{8}$ oz. 90c., $\frac{1}{4}$ oz. \$1.50, oz. \$4.50

TOBACCO PLANT—See NICOTIANA.

TORENIA

8 to 10 in.—375,000 S

Fournieri compacta. Blue. Rich combination of deep blue with golden blotches. Excellent as a pot plant for Spring sales, for bedding, border work, boxes, etc. Blooms profusely all Summer and tends to spread to as much as 18 inches across.

Tr. pkt. 40c., 1/16 oz. 75c., 1/8 oz. \$1.25, 1/4 oz. \$2.25

VIOLA - Miniature Pansies

Extra free flowering. Hardy and fine for bedding.

	25,000 S	Tr. pkt. $\frac{1}{8}$ oz.	$\frac{1}{4}$ oz.	Oz.
Arkwright Ruby. Bright ruby crimson.....			\$0.60	\$1.60 \$2.85 \$8.80
Blue Perfection. Bright blue, large flowers.....	.60	1.20	2.25	6.40
Chantryland. True apricot, yellow, large flowered.....	.60	1.10	2.10	6.25
Puck. Purplish violet and yellow..	.40	.75	1.35	4.25
Purple Queen. Purplish violet blue..	.40	.75	1.35	4.25
White Perfection. Small pure white..	.40	.75	1.35	4.25
Yellow Gem. Pure yellow.....	.40	.75	1.35	4.25
Exquisite Blend. Our own mixture of above.....	.60	1.10	2.00	6.00
Johnny Jump Up. Little pansy faces of various colors.....	.60	1.25	2.25	7.50

VINCA - Periwinkle

15 in.—21,000 S

Good bedder. Sow early, bottom heat. One of the finer bedding plants. Deep green, waxy leaves. Blooms profusely until frost.

Alba Pura. Pure white. **Twinkles.** Soft pink with red eye.
Alba oculata. White with pink center. **Kermesina.** Crimson.
Rosea. Medium pink. **Choice Mixed**

Prices of Vinca: Tr. pkt. 30c., $\frac{1}{4}$ oz. 60c., oz. \$2.00

Fleck's Giant Zinnias All the Best

2500 to 4200 S per Ounce

Another one of our specialties because it is a great money maker for Mr. Florist. We have taken considerable time and pains to procure the widest range of types and colors for your selection. We recommend late March sowing in warm greenhouse and give bottom heat. October or November sowing for our friends in the South.

DAHLIA FLOWERED 30 in.



Canary Bird. Bright clear canary yellow.

Crimson Giant. Deep crimson.

Dream. Attractive orchid lavender.

Eldorado. Salmon apricot.

Exquisite. Medium rose pink with deeper center.

Golden Dawn. Clear golden yellow.

Golden State. Rich orange yellow.

Illumination. Deep rose.

Luminosa. Flaming rose.

Meteor. Rich deep red, very striking.

Oriole. Orange and gold bicolor.

Polar Bear. Creamy white.

Purple Prince. Deep purple.

Scarlet Flame. Bright scarlet.

Will Rogers. Bright scarlet red.

Finest Mixed of All Dahlia Flowered.

Tr. pkt. 30c., $\frac{1}{4}$ oz. 50c., $\frac{1}{2}$ oz. 85c., oz. \$1.35, $\frac{1}{4}$ lb. \$4.00.
lb. \$14.50

Special "Klondike" Offer

Collection of trade packet each of the above
15 varieties for \$3.50
Or any 10 pkts., your selection, \$2.75

NEW SUPER GIANTS 30 in.

FLUFFY, RUFFLED and CACTUS

Blaze. Curled and fluted cactus. Mandarin red.

Tr. pkt. 50c., $\frac{1}{8}$ oz. \$1.25, $\frac{1}{4}$ oz. \$2.00, oz. \$6.50

Burpee Hybrids. Immense, fluffy and ruffled flowers with graceful, curved petals like those of a giant Chrysanthemum.

Tr. pkt. 50c., $\frac{1}{4}$ oz. 80c., oz. \$2.40, 4 ozs. \$8.00

Floradale Scarlet. Cactus blooms $5\frac{1}{2}$ to $6\frac{1}{2}$ in. across. Brilliant scarlet red.

Tr. pkt. 30c., $\frac{1}{4}$ oz. 50c., oz. \$1.50, 4 ozs. \$4.40

Luther Burbank. Delicate pastel shades in blooms larger than Dahlia class. Many two and three color combinations.

Tr. pkt. 50c., $\frac{1}{4}$ oz. 80c., oz. \$2.40, 4 ozs. \$7.50

Riverside Beauty. Cactus flowers, 5 to $5\frac{1}{2}$ in. across. Luminous Azalea pink.

Tr. pkt. 35c., $\frac{1}{4}$ oz. 75c., oz. \$2.40, 4 ozs. \$7.00

Fleck's Super Giants Mixture. This is a special blend of our own Super Giants of the Dahlia Class as well as all of the above newer varieties.

Tr. pkt. 50c., $\frac{1}{4}$ oz. 90c., oz. \$2.25, 4 ozs. \$6.90

FANTASY TYPES

30 in. (Chrysanthemum Flowered)

Star Dust. Bright, deep golden yellow.

White Light. Pure white.

Wildfire. Intense dazzling scarlet.

Choice Mixed.

Tr. pkt. 30c., $\frac{1}{4}$ oz. 55c., $\frac{1}{2}$ oz. 90c., oz. \$1.65

CALIFORNIA GIANTS

Mammoth, 30 in.

Brightness. Bright rose pink

Miss Willmott. Soft pink.

Cerise Queen. Salmon cerise

Orange King.

Daffodil Improved. Clear

canary yellow.

Purity. Best white.

Enchantress. Light pink with deep center.

Rose Queen. Flashy deep rose.

Golden Queen. Bright golden yellow.

Scarlet Queen. Intense scarlet.

Lavender Queen. Deep rosy lavender.

Violet Queen. Violet purple.

Special Mixed of Above Varieties.

Tr. pkt. 25c., $\frac{1}{4}$ oz. 45c., $\frac{1}{2}$ oz. 75c., oz. \$1.25,
 $\frac{1}{4}$ lb. \$3.75, lb. \$13.50

"TREASURE CHEST" OFFER

Trade packet each of the above 12 varieties for \$2.40

Fleck's Zinnias—All the Best



Zinnia, Lilliput



Zinnia, Scabious



Zinnia, Haageana



Zinnia, Fantasy

LILLIPUT IMPROVED

12 in. (Pompon)

Attractive bedding type. Also fine for short bouquet work. However, if you want the small flowering type for cut work only, then we recommend the Elegans Pumila.

Black Ruby. Double, deep velvety maroon.

Canary Gem. Canary yellow

Crimson Gem.

Golden Gem. Golden orange

Lilac Gem.

Pink Gem.

Tr. pkt. 20c., $\frac{1}{4}$ oz. 40c., $\frac{1}{2}$ oz. 70c., oz. \$1.25, $\frac{1}{4}$ lb. \$3.75,
lb. \$12.00

SPECIAL OFFER: Trade packet each of above (except Mixtures) 11 Lilliput Varieties for \$1.80

Purple Gem.

Rosebud. Rose pink.

Salmon Gem. Salmon rose.

White Gem.

Valencia. Delightful, burnt orange.

Choice Mixed.

HAAGEANA - Double Zinnia

18 in.

Persian Carpet. Improved Haageana type. Height 12 in. Fully double, ball shaped blooms of miniature type in a sparkling range of variegated color combinations with many rich shades including gold, bronze and orange. Flowers with cutting stems borne on low, mound-shaped border and edging plants.

Tr. pkt. 40c., $\frac{1}{4}$ oz. \$1.25, oz. \$4.00

Mexican Hybrids, Finest Mixed. Small-flowered type, attractive colors. Excellent bedder. Tr. pkt. 30c., $\frac{1}{4}$ oz. 60c., oz. \$2.00.

SCABIOUS-FLOWERED

Mixture, Giant Crested. Produces blooms of good texture.

Tr. pkt. 25c., $\frac{1}{4}$ oz. 45c., oz. \$1.40

CUPID ZINNIAS

The Smallest of Them All—6-8 in.



Zinnia, Tom Thumb Cupid

ELEGANS PUMILA -

Tall Type Lilliput

18 in. to 24 in. Cut-and-Come-Again

Double and perfectly formed, medium size flowers with long stems. Particularly fine for cutting.

Peppermint Stick. This strain is characterized by its unusual red and white and yellow and white striped flowers. Pumila type. Medium size blooms. Approximately 70 per cent will be striped.

Tr. pkt. 35c., $\frac{1}{4}$ oz. 75c., oz. \$2.25, 4 ozs. \$7.00

Golden Ball.

Spun Gold. Delicately tinted butter yellow.

Pinkie. Rose pink.

Snowball. Snow white.

Fireball. Scarlet.

Fleck's Special Mixture. Blend of above.

Salmon Rose. Watermelon pink.

Tr. pkt. 20c., $\frac{1}{4}$ oz. 35c., oz. \$1.00, $\frac{1}{4}$ lb. \$3.40

DOUBLE CREEPING

("SANVITALIA PROCUMBENS")

Dwarf. Edging, bright yellow. Tr. pkt. 30c., $\frac{1}{4}$ oz. 60c., oz. \$2.00.

Perennial Seed for Florists

AND POPULAR BIENNIALS

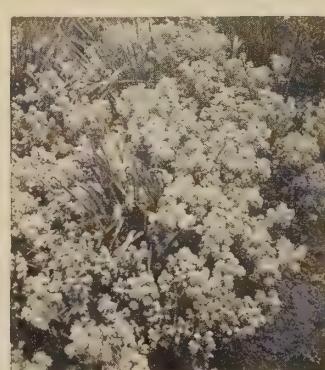
Every florist who has the available space should grow Perennials. Some are as easily raised as Annuals; quite a few may be forced; some make fine pot plants, and many furnish splendid cutting material. The rock garden requirements absorb all the low-growing varieties and the florist with his eye to the future will devote considerable space to Perennials of all kinds. They require little heat, if any, and not much care.



Achillea, Pearl



Aconitum



Alyssum, Saxatile Compactum



Anchusa

ACHILLEA - Pyramidal Fl. Pl.

Fine for cutting.

Filipendula (Cloth of Gold). 22,000 S. Large heads of golden yellow flowers on long stems.

Pearl. 150,000 S. Abundance of small white, double flowers. 30 in.

Tr. pkt. 30c., $\frac{1}{8}$ oz. 70c., $\frac{1}{4}$ oz. \$1.25, oz. \$4.50.

ACONITUM - Monks Hood

(CUPID'S CAR)

Requires low temperature or freezing to germinate.

Napellus. Dark blue. 36 in.

Tr. pkt. 30c., $\frac{1}{4}$ oz. 80c., $\frac{1}{2}$ oz. \$1.55, oz. \$3.00.

ALLWOODII - See DIANTHUS

ALYSSUM

40,000 S

Perfectly hardy. Make fine plants for rock garden or borders.

Saxatile compactum. Golden yellow. 12 in.

Tr. pkt. 20c., $\frac{1}{4}$ oz. 35c., oz. \$1.00

ANCHUSA

Italica, Dropmore. Blue. Excellent for cut. 5 ft. 1200 S.

Tr. pkt. 20c., $\frac{1}{4}$ oz. 60c., oz. \$1.80

ANEMONE

35,000 S

St. Brigid Hybrid Mixed. Brilliant colors. Good keeper, long stems. 18 in.

Tr. pkt. 55c., $\frac{1}{4}$ oz. \$1.10, oz. \$3.25.

ANTHEMIS - Hardy Marguerite

30 in.—85,000 S

Kelwayi. Golden yellow, Daisy flowers, blooms throughout the Summer.

Tr. pkt. 20c., $\frac{1}{4}$ oz. 30c., oz. 70c.



Anemone, St. Brigid



Aquilegia, Long Spurred

AQUILEGIA - Columbine

LONG SPURRED VARIETIES

Fleck's Hybrids, Mixed Long Spurred Varieties. Ideal mixture for the florist. Unusual fine strain; full color range. 3 ft.

Tr. pkt. 40c., $\frac{1}{8}$ oz. 75c., $\frac{1}{4}$ oz. \$1.40, oz. \$4.90

Blue Shades. 3-4 ft. This strain is the result of years of selecting. Huge flowers.

Tr. pkt. 50c., $\frac{1}{8}$ oz. 85c., $\frac{1}{4}$ oz. \$1.45, oz. \$5.00

Longissima. Delicate, pale yellow with 4 in. spurs. Very fragrant.

Tr. pkt. 60c., 1/32 oz. \$1.60, 1/16 oz. \$2.50, $\frac{1}{8}$ oz. \$4.50

Mrs. Scott Elliott's Strain. 2 ft. Popular mixture.

Tr. pkt. 40c., $\frac{1}{8}$ oz. 65c., $\frac{1}{4}$ oz. \$1.00, oz. \$3.20

COERULEA (Rocky Mountain Columbine)

16,000 S

Coerulea. Sky blue with white corolla. 2 ft.

Tr. pkt. 40c., $\frac{1}{4}$ oz. \$1.10, oz. \$3.25.

PERENNIAL SEEDS FOR FLORISTS



Arabis



Armeria, Glory of Holland



Bellis

ARABIS (Rock Cress)

150,000 S

Excellent for rockeries, borders, etc. Habit—dense masses of flowers.

Alpina Snow Cap. Compact, glistening white. 6 in.
Tr. pkt. 40c., $\frac{1}{4}$ oz. 80c., oz. \$2.75

Alpina Rosea. Dwarf, upright pink. 12 in.
Tr. pkt. 50c., $\frac{1}{8}$ oz. 90c., $\frac{1}{4}$ oz. \$1.75, oz. \$6.00

Spring Charm. Carmine red.
Tr. pkt. 50c., $\frac{1}{8}$ oz. \$1.25, $\frac{1}{4}$ oz. \$2.40

ARMERIA 24 in.—18,000 S

Glory of Holland. A beautiful, clear, deep pink, the 2 to 3 in. flowers are borne in great abundance on a straight, graceful stem 24 in. high during June and continue to bloom until frost. As a cut flower it stands up well and lasts for many days.

Tr. pkt. 60c., 1/16 oz. \$1.15, $\frac{1}{8}$ oz. \$2.00, $\frac{1}{4}$ oz. \$3.00

AUBRIETA (Rock Cress) 150,000 S

Dense mass—matlike habit. Excellent for rockeries, hillsides, etc.



Leichtlini. Carmine rose.

Large-flowered Hybrids. 6 in. Bright mixture.

Above each: Tr. pkt. 55c., $\frac{1}{8}$ oz. \$1.10, $\frac{1}{4}$ oz. \$2.00

AURICULA See PRIMULA

BABY'S BREATH — See GYPSOPHILA PANICULATA

BAPTISIA

36 in.—1750 S

Australis (False Indigo). Blue, pea-shaped flowers in sprays.
Tr. pkt. 30c., oz. 80c.

BELLIS - English Daisy

Fine for rockeries, massed borders, etc.

170,000 S

Double Red

Double White (Snowball). 6 in.

Double Rose

Double Mixed

Prices of all Bellis:

Tr. pkt. 60c., $\frac{1}{8}$ oz. \$1.75, $\frac{1}{4}$ oz. \$3.40, oz. \$9.50



Boltonia

BOLTONIA - Latisquama

(FALSE CHAMOMILE)

4-5 ft.—80,000 S

Pink. Delicate shade.

Tr. pkt. 30c., $\frac{1}{4}$ oz. \$1.00, oz. \$3.20

PERENNIAL SEEDS FOR FLORISTS



Campanula, Medium



Centaurea, Montana



Cerastium



Coreopsis

CAMPANULA

CARPATICA (Carpathian Bellflower)
9 to 12 in.—350,000 S

Blue

Tr. pkt. 30c., $\frac{1}{8}$ oz. 80c., $\frac{1}{4}$ oz. \$1.40

MEDIUM CALYCANTHEMA (Cup-and-Saucer)
3 ft. (Biennial)—120,000 S

Dark Blue Rose White, or Mixed
Tr. pkt. 25c., $\frac{1}{4}$ oz. 50c., oz. \$1.75

MEDIUM SINGLES (Canterbury Bells)—135,000 S
Rose White Blue Mixed
Tr. pkt. 20c., $\frac{1}{4}$ oz. 30c., oz. 90c.

PERSICIFOLIA (Perennial Peach Bell)
30 in.—340,000 S

Telham Beauty. Very large bells of China Blue shades.
Tr. pkt. 40c., $\frac{1}{8}$ oz. \$1.00, $\frac{1}{4}$ oz. \$1.85

CANDYTUFT - Iberis

6,000 S

Gibraltarica. Lilac shading to white. 12 in.
Tr. pkt. 25c., $\frac{1}{4}$ oz. 50c., oz. \$1.50

Jucunda. Dwarf, pink. 4 in.
Tr. pkt. 50c., 1/16 oz. \$1.50, $\frac{1}{8}$ oz. \$2.70

Sempervirens. Standard white. 12 in.
Tr. pkt. 50c., $\frac{1}{4}$ oz. \$1.35, oz. \$4.75

CARNATION - Grenadin

20 in.—14,000 S

One of the perennials well adapted for cutting.

Black King. Dark red	Triumph. Deep pink
Cardinal Red	White Gold. Soft yellow
Golden Sun. Yellow	Mixed
Snow White	

Tr. pkt. 60c., $\frac{1}{8}$ oz. \$1.10, $\frac{1}{4}$ oz. \$2.00, oz. \$6.50

CARNATION - Vienna

Excellent for Spring bedding sales. Dwarf counterpart of Grenadin. 15 in.

White or Mixture.
Tr. pkt. 65c., $\frac{1}{8}$ oz. \$1.25, $\frac{1}{4}$ oz. \$2.25, oz. \$7.00

CENTAUREA - Minor

24 in.—1600 S

Montana. Azure blue flowers.
Tr. pkt. 25c., $\frac{1}{4}$ oz. 50c., oz. \$1.50

ANNUAL CENTAUREA—See page 10.

CERASTIUM - Snow-in-Summer

42,000 S

Tomentosum. White flowers, silvery white foliage. Fine for rockeries or edging. 10 to 15 in.

Tr. pkt. 30c., $\frac{1}{4}$ oz. 60c., oz. \$1.80

CHEIRANTHUS

(Hardy Annual) 18 in.—19,000 S

	Tr. pkt. $\frac{1}{4}$ oz. Oz.
Allioni (Siberian Wallflower). Biennial.	
Brilliant orange (Orange Queen).....	\$0.20 \$0.50
Golden Bedder. Very desirable. Large, deep golden yellow flowers. Sweet-scented.....	.20 .40 1.15

CHRYSANTHEMUM - Daisies

SHASTA or MOON DAISY

Diener's Giant. 18,000 S. Double fringed white, excellent strain. Large flowers.

Tr. pkt. 90c., 1/16 oz. \$1.40, $\frac{1}{8}$ oz. \$2.40, $\frac{1}{4}$ oz. \$4.40

Korean Hybrids. 60,000 S. Single and semi-double flowers of fine color range.

Tr. pkt. \$1.00, 1/16 oz. \$1.60, $\frac{1}{8}$ oz. \$2.50, $\frac{1}{4}$ oz. \$4.50

Shasta Alaska, Double. 26,000 S. Large, white flowers on long, strong stems. Ideal for cutting. 3 ft.

Tr. pkt. 75c., 1/16 oz. \$1.25, $\frac{1}{8}$ oz. \$2.25, $\frac{1}{4}$ oz. \$4.25

COREOPSIS - Tickseed

30-36 in.—11,000 S

Perennial forms of Calliopsis. Tr. pkt. $\frac{1}{4}$ oz. Oz.

Double New Gold. Large and fluffy flowers of rich golden yellow with long stems makes this a real cut flower item. Comes 100% double..... \$0.20 \$0.35 \$1.00

DAISY

See CHRYSANTHEMUM

PERENNIAL SEEDS FOR FLORISTS



Delphinium, Pacific Giants

DELPHINIUM 10,000 S

Early Spring sowing will produce nice, large clumps by Fall for sales or greenhouse forcing. January sowing will produce flowers during Summer. July and August sowing and transplanting into the field during Fall will produce an early crop of fine large spikes.

Sow from January to September in flats. Use light, sandy soil, cover seed very slightly, keep moist and shaded until germination starts. Gradually give more light and fresh air, later transplant into flats and when large enough, harden off in full sun before planting out. Rich soil, good drainage and sunny location are essential.

For quicker and better germination, freeze seeds before sowing.

Bellamosum Improved. Deep blue.

Cliveden Beauty (Improved Belladonna). Light blue.

Above 2, each:

Tr. pkt. 40c., $\frac{1}{4}$ oz. \$1.00, oz. \$3.25, $\frac{1}{4}$ lb. \$11.00

PACIFIC GIANTS STRAIN—5 ft.

Magnificent show type, produces immense tapering spikes with large, double florets. Seeds we offer were produced from originators' finest stock.

Astolat Series. Contains many new shades, such as pale blush, lilac pink, deep Raspberry rose, white brown, fawn, and black bees for contrast.

Tr. pkt. \$2.25, $\frac{1}{8}$ oz. \$4.50, $\frac{1}{4}$ oz. \$8.00

Black Knight. Velvety dark purple.

Blue Bird Series. Clear, medium blue with white bees.

Galahad Series. Pure white.

Guinevere Series. Light pink lavender with white bee.

King Arthur. Brilliant royal violet. White bee.

Lancelot. Clear lilac with white bee; a rare color in Delphinium.

Round Table Series. All the newest colors and types.

Summer Skies Series. Clear blue with white bee.

Pacific Hybrids Mixed.

Prices on all Pacific Giants, except Astolat:

Tr. pkt. \$1.50, $\frac{1}{8}$ oz. \$2.50, $\frac{1}{4}$ oz. \$4.50, oz. \$15.50



Dianthus, Pinks



Dianthus, Barbatus

DIANTHUS - Pinks

28,000 S

PLUMARIUS VARIETIES

Cyclops. Perpetual single. Nice color range with red eyes. Tr. pkt. 40c., $\frac{1}{4}$ oz. \$1.10, oz. \$3.95.

Scotticus Double. Special florist strain. Self colors of various tints of pink, rose, salmon and white and the same colors in combination with a bright crimson zone. 12-15 in. blooms, 1½ to 2 in. Free flowering. This is the best one in the Plumarius class.

Tr. pkt. 35c., $\frac{1}{8}$ oz. \$1.00, $\frac{1}{4}$ oz. \$1.75, oz. \$5.40

OTHER VARIETIES

Tr. pkt. $\frac{1}{8}$ oz. $\frac{1}{4}$ oz. Oz.

Allwoodi alpinus, Mixed. 4 to 6 in. flowers first year from seed. A gem for the rockery; fragrant..... \$0.35 \$1.00 \$1.75 \$5.60

Caesius grandiflorus (Cheddar Pinks). Pink flowers. 6 in..... .35 .50 .90 3.00

Deltoides, Brilliant (Maiden Pinks). Rich rose pink. 6 in..... .35 1.00 1.75 5.50

Little Jock Hybrids. Rare, extra dwarf, 6 in. Mixed colors..... .40 1.25 2.00 7.00

DIANTHUS - Barbatus

(Hardy Biennial Sweet William)

Single Giant White. Enormous trusses which give the appearance of Perennial Phlox. Flowers almost twice size of ordinary varieties. 24 in.

Single Newport Pink. 18 to 24 in.

Single Purple Beauty.

Single Scarlet Beauty. 18 to 24 in.

Singles Mixed. 18 to 24 in.

Prices of above: Tr. pkt. 35c., $\frac{1}{4}$ oz. 75c., oz. \$2.60

DWARF MIXTURES

Single Dwarf Alpine Mixed. Compact. 4 to 6 in. Ours is an excellent strain in full Sweet William color range.

Tr. pkt. 60c., $\frac{1}{4}$ oz. \$1.45, oz. \$4.70

Double Dwarf Alpine Mixed. Compact. 4 to 6 in. Same as above mixture, except almost 100% doubles.

Tr. pkt. 40c., $\frac{1}{4}$ oz. 85c., oz. \$3.00

ANNUAL DIANTHUS. See page 12.

DICTAMNUS - Gas Plant

30 in.—1700 S

Seeds germinate slow and irregular.

Fraxinella. Pink with dark veins.

Fraxinella albus. White.

Tr. pkt. 35c., $\frac{1}{4}$ oz. 60c., oz. \$1.95

PERENNIAL SEEDS FOR FLORISTS



Dielytra



Digitalis

DIGITALIS - Foxglove

4 ft.—Biennial—180,000 S

Giant Shirley Spotted Mixture. Enormous flowers
Height 4-6 ft.

Tr. pkt. 25c., $\frac{1}{4}$ oz. 60c., oz. \$2.15

DIELYTRA - Dicentra (Bleedingheart)

Eximia. Dwarf plumy type. Effective in rockeries.

Tr. pkt. 40c., $\frac{1}{8}$ oz. 65c., $\frac{1}{4}$ oz. \$1.00

Spectabilis.

Tr. pkt. \$1.40, 1/32 oz. \$2.00, 1/16 oz. \$3.90, $\frac{1}{8}$ oz. \$5.90

ENGLISH DAISY—See Bellis

EVENING PRIMROSE—See Oenothera

FEVERFEW—See Matricaria

FORGET-ME-NOT—See Myosotis

FOXGLOVE—See Digitalis

HARDY PINKS - See Dianthus

GAS PLANT - See Dictamnus

GAZANIA

Splendens Grandiflora Mixed. Daisy type flower with
dark center; yellow and white shades; greenhouse perennial.

Tr. pkt. 50c., $\frac{1}{4}$ oz. \$1.00, oz. \$3.00

GEUM AVENS - Rose of the Rockery

2 ft.—7000 S

Lady Stratheden. Double golden, orange yellow.

Mrs. Bradshaw. Double glowing scarlet.

Tr. pkt. 30c., $\frac{1}{4}$ oz. 80c., oz. \$2.50

HELIANTHEMUM - Sun Rose

15,000 S

Mutable, Mixed Colors. 12 in. Dwarf, evergreen rock
plant. Blooms during July and August.

Tr. pkt. 25c., $\frac{1}{4}$ oz. 45c., oz. \$1.45

GAILLARDIA Grandiflora



Gaillardia, Goblin

20 in.—9500 S

Well adapted for cutting with the exception of the variety
"Goblin." Tr. pkt. $\frac{1}{4}$ oz. Oz.

Burgundy. Coppery scarlet self..... \$0.30 \$0.75 \$2.25

Dazzler. Gold with maroon red center.... .30 .55 1.85

Goblin. Dwarf compact, red and yellow
bicolor flowers, fine for rockeries..... .25 .75 2.25

Tangerine Improved. Giant orange flow-
ers overlaid with red..... .35 .60 1.95

Fleck's Superb Mixture of above..... .30 .60 1.90

Other GAILLARDIAS listed in Annuals Section



Gypsophila



Heuchera

GYPSOPHILA

3 ft.—34,000 S

PANICULATA (Baby's Breath)

An asset for outdoor cutting. Economical and easy to
grow. Tr. pkt. $\frac{1}{4}$ oz. Oz.

Double Snowflake..... \$0.40 \$1.40 \$4.75

Single White..... $\frac{1}{4}$ lb. \$1.50, .2045

Oldhamiana. 30 in. Feathery light pink
flowers with silvery foliage. Blooms first
year from early sowing. October flowering. .25 .75 2.50

For Yellow Gypsophila, see "Isatis," next page.

ANNUAL GYPSOPHILA—See page 13.

HESPERIS (Sweet Rocket)

15,000 S

Sweet scented flowers on 3 ft. plants.

Violet or White.

Tr. pkt. 25c., $\frac{1}{4}$ oz. 35c., oz. \$1.00

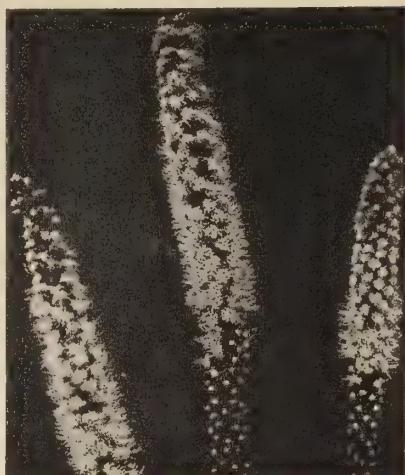
PERENNIAL SEEDS FOR FLORISTS



Hollyhock, Double



Lavandula, Lavender Vera



Liatris, Pycnostachya



Lunaria

HEUCHERA - Coral Bells

24 in.—750,000 S

Sanguinea Hybrids Mixed. Shades of red and rose to white.
Sanguinea splendens. Vermilion.

Tr. pkt. 60c., 1/16 oz. \$1.75, 1/8 oz. \$3.20

HIBISCUS

4 ft.

Mallow Marvels, Mixed. Reselected. Pink, Rose and Red shades. Tr. pkt. 25c., 1/4 oz. 45c., oz. \$1.35.

HOLLYHOCK

6 to 7 ft.—2700 S

Tr. pkt. 1/4 oz. Oz.

Triumph Double Mixed. Flowers waved and fringed.....\$0.30 \$0.60 \$1.80

HONESTY - See Lunaria

IBERIS - See Candytuft

ISATIS

Glauca (Golden Gypsophila). Silvery gray-green foliage. Clouds of fine yellow in July. 2 ft.

Tr. pkt. 40c., 1/4 oz. 85c., 1/2 oz. \$1.55

LAVANDULA - Mallow

12 in.—32,000 S

Munstead Strain (Improved Vera). Freely produces large, sweet-scented flowers a month earlier than the old common type. Tr. pkt. 40c., 1/4 oz. \$1.10, oz. \$4.00.

LEONTOPodium - Alpinum (Edelweiss)

Attractive rock garden plant. Small greenish white flowers.

Tr. pkt. 60c., 1/16 oz. \$1.10, 1/8 oz. \$2.00

LIATRIS - Blazing Star

3 to 5 ft.—10,000 S

Excellent cut, long, decorative spikes.

Pycnostachya. Purple. 5 ft.

Scariosa. Rose purple. 4 ft.

Spicata. Purple rose. 20 in.

Tr. pkt. 35c., 1/4 oz. \$1.00, oz. \$3.00

LILIMUM

LILIES FROM SEED

Regale. 6600 S. White flowers with lemon tinting on inside, rosy suffusions near base on outside. Excellent for outdoor growing for cut.

Tr. pkt. 25c., 1/4 oz. 60c., oz. \$1.50, 1/4 lb. \$5.00

LINUM - Perennial Flax

8500 S Tr. pkt. 1/4 oz. Oz.

Collinum. Dwarf, light blue.....\$0.40 \$1.00 \$3.50

Flavum. Golden yellow, fine rock plant.
1 ft..... .30 .75 .85

Flavum nanum compactum. Dwarf yellow. 6 in..... .40 1.00 3.50

Perenne. Blue. 30 in..... .2060

ANNUAL LINUM (Scarlet)—See page 13.

LOBELIA

700,000 S Tr. pkt. 1/4 oz. Oz.

Cardinalis. Scarlet. 3 ft.....\$0.40 \$1.30 \$3.90

LUNARIA - Honesty or Money Plants

(Biennial)—3 to 5 ft.—1500 S

Good for cut or drying for decorative purposes.

Madonna. White

St. Peter's Penny. Lilac purple

Fleck's Blend.

Tr. pkt. 25c., 1/4 oz. 40c., oz. \$1.40, 1/4 lb. \$5.00

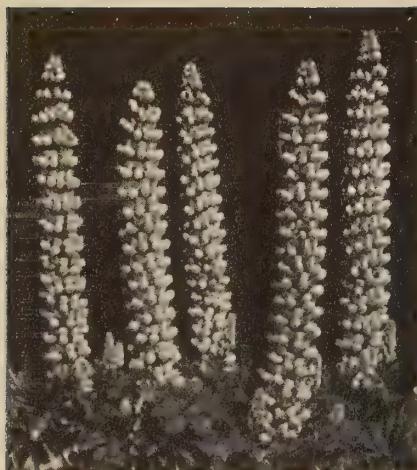
LYCHNIS - Maltese Cross

30 in.—64,000 S

Chalcedonica. Scarlet. 36 in.

Tr. pkt. 25c., 1/4 oz. 45c., oz. \$1.40

PERENNIAL SEEDS FOR FLORISTS



Russell Lupines



Matricaria



Oenothera, Missouriensis

LUPINUS - Hardy Lupines

1000 S

Thrives best in a cool climate and requires a well-drained location. Excellent for cut.

Tr. pkt. $\frac{1}{4}$ oz. Oz.

Russell Strain. Unusually long, closely set flower spikes and the widest range of attractive colors. 4 ozs. \$6.50, \$0.40 \$0.65 \$2.10

ANNUAL LUPINES—See page 15.

MATRICARIA - Capensis (Feverfew)

24 in. —145,000 S

Ball Double White. Sowings of this popular strain made through January will produce a welcome cut during July and August. Improved.

Tr. pkt. 40c., $\frac{1}{8}$ oz. \$1.10, $\frac{1}{4}$ oz. \$2.00, oz. \$6.00

Ultra-Double White. 2 ft. This special select strain closely approaches the quality usually only obtained from cuttings.

Tr. pkt. \$1.00, 1/16 oz. \$2.00, $\frac{1}{4}$ oz. \$6.00, oz. \$18.00

DWARF DOUBLES

Golden Ball. Dwarf semi-double, golden yellow. 10 in.

Snowball. Pure white.

Prices of the above—2 dwarfs

Tr. pkt. 35c., 1/16 oz. 60c., $\frac{1}{4}$ oz. \$2.00

MYOSOTIS - Forget-me-not

42,000 S Tr. pkt. $\frac{1}{4}$ oz. Oz.

Blue Bird (Oblongata). Early. Standard blue. Used also for Spring greenhouse flowering. 12 in. \$0.40 \$0.90 \$3.25

Alpestris (Sutton's Royal Blue). Indigo blue. 12 in. 40 .85 3.00

ALPESTRIS VICTORIA, DWARF VARIETIES—6 in.

Azure Blue	Dark Blue	Mixture
Rose	White	

Prices of Dwarf Varieties: Tr. pkt. 40c., $\frac{1}{8}$ oz. 90c., $\frac{1}{4}$ oz. \$1.65, oz. \$4.95

OENOTHERA - Evening Primrose

Tr. pkt. $\frac{1}{4}$ oz. Oz.

Missouriensis (Macrocarpa). Large soft yellow flowers. Trailing. June to Sept. 12 in. \$0.30 \$1.20 \$4.00

PAINTED DAISY—See PYRETHRUM.

PHLOX, DECUSSATA

3 ft.—2500 S

Sow outside late Fall. Winter freezing helps germination in Spring.

New Hybrids, Choice Mixed.

Tr. pkt. 40c., $\frac{1}{4}$ oz. 80c., oz. \$2.50

PHYSOSTEGIA Virginica

4 ft.—16,500 S

Rosy Lilac Spire. Tr. pkt. 60c., $\frac{1}{4}$ oz. \$1.50.

PINKS—See DIANTHUS.

PLATYCODON

28,000 S

WAHLENBERGIA GRANDIFLORA

Mariesi. Dark blue, dwarf. 16 in.

Tr. pkt. 40c., $\frac{1}{8}$ oz. 90c., $\frac{1}{4}$ oz. \$1.60, oz. \$5.50

POPPY

ICELAND (NUDICAULE)

18 in.—400,000 S

This type can be forced in greenhouse for Spring sales. Start in flats or pots.

Pink Champagne. New. Beautiful pink shades.

Tr. pkt. 60c., 1/16 oz. \$1.00, $\frac{1}{8}$ oz. \$1.90

Fleck's Special Blend. Contains every shade and all known varieties. Tr. pkt. 40c., $\frac{1}{8}$ oz. 65c., $\frac{1}{4}$ oz. \$1.20.

ORIENTALE

140,000 S

Beauty of Livermere. Dark ox-blood red.

Tr. pkt. 40c., $\frac{1}{8}$ oz. 70c., $\frac{1}{4}$ oz. \$1.25

PRIMULA, VERIS

33,000 S

Fine for Spring pot sales. Plants lifted from outdoors in Fall will make specimen pot plants from February on.

Giant Munstead Strain. An excellent mixture of all shades. Still considered the best.

Tr. pkt. \$1.25, 1/16 oz. \$1.65, $\frac{1}{8}$ oz. \$3.00, $\frac{1}{4}$ oz. \$5.20, $\frac{1}{2}$ oz. \$7.00

PRIMULA, VULGARIS

6 in.—19,000 S

True Yellow English Primrose.

Tr. pkt. 60c., $\frac{1}{8}$ oz. \$1.00, $\frac{1}{4}$ oz. \$1.75, oz. \$6.50

PERENNIAL SEEDS FOR FLORISTS



Primula Vulgaris



Tritoma



Trollius



Veronica

PYRETHRUM Roseum - Painted Daisy

2 ft.—20,000 S

Excellent cut flower; easy to grow.

Robinson's Giant Hybrids Mixture. A wonderful mixture. Large Daisy-like flowers, small yellow-centers with long petals of rose and scarlet, 3½ to 4 in. across.

Tr. pkt. 60c., ¼ oz. \$1.50, oz. \$4.70

Roseum Hybridum. Mixture of singles.

Tr. pkt. 60c., ¼ oz. \$1.50, oz. \$4.75

SALVIA - Flowering Sage—3 ft.—3500 S

Farinacea. Rich bright blue.

Tr. pkt. 40c., ½ oz. 70c., ¼ oz. \$1.25

SAPONARIA, OCYMOIDES

(Soapwort)—12 in.—5500 S

Rose. Pure rose shade, trailing. Fine for rockeries.

Tr. pkt. 30c., ¼ oz. 75c., ½ oz. \$1.20, oz. \$2.25

SCABIOSA

CAUCASICA—24 in.—2400 S

Good cut varieties. Germination slow and irregular.

House's Hybrids. Color range from dark blue to lavender. Large flowers. Tr. pkt. 40c., ¼ oz. \$1.10, oz. \$3.75.

SHASTA DAISY - See Chrysanthemum

STATICE - Everlasting Flower

Perennial Statice are very hardy. Has many uses and therefore a good number for the florist. Fine for cutting. Some may be dried and dyed.

Tr. pkt. ¼ oz. Oz.

Caspia. 175,000 S. Seedlings flower second season. 30 in. Lilac.....\$0.30 \$0.80 \$2.75

Dumosa. 19,000 S. Dense clumps of silvery gray flowers. 24 in..... .40 1.00 2.95

Latifolia (Sea Lavender). 40,000 S. Lavender blue. 30 in..... .30 .65 2.00

Perezi. 14,000 S. Large, rich blue heads first year, from seed..... .30 .65 2.00

SUMMER POINSETTIAS—See EUPHORBIA.

SWEET WILLIAM—See DIANTHUS Barbatus.

THALICTRUM - Meadow Rue

40 in.—10,000 S

Excellent for filling in bouquets. Should be more widely used. Inexpensive. A wonderful green. Also for basket work and floral pieces. Fine outdoor Summer green even after flowering. Produces well after first season.

Dipterocarpum. Mauve flowers in large panicles. Fine for cut. 4 ft.

Tr. pkt. 30c., ¼ oz. 75c., oz. \$2.25

TRITOMA - Red Hot Poker

3 ft.—22,000 S

Mirabilis Hybrids. Yellow and orange shades; blooms first year.

Fitzer's Hybrids. Scarlet, red and yellow.

Early Hybrids Mixed (New).

Tr. pkt. 30c., ¼ oz. 60c., ½ oz. \$1.10, oz. \$2.00

VERONICA - Speedwell

Tr. pkt. ¼ oz. Oz.

Longifolia (Maritima). Compact clusters, blue flowers. 30 in.....\$0.35 \$0.75 \$2.25

Spicata. Various blue shades. 18 in..... .35 .75 2.25

VIOLA - Biennial-Annual

See ANNUAL SECTION

WALLFLOWER (Tom Thumb)

Excellent for Spring bedding plant sales. (Biennial).

Tr. pkt. 60c., ¼ oz. \$1.00, oz. \$3.40, 4 ozs. \$11.00

Fleck's Reliable Vegetable Seeds

BEST STRAINS FOR FLORISTS AND MARKET GARDENERS



A View of One of the Sources of Our Specialty Seeds

BEETS

Oz. $\frac{1}{4}$ lb. Lb. 5 lbs.

Detroit Dark Red. Fleck's Special Strain.....	\$0.30	\$0.80	\$2.40	\$11.00
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BROCCOLI

Approximately 3500 plants from 1 oz.

$\frac{1}{2}$ oz. Oz. $\frac{1}{4}$ lb.

Calabrese. Early green. 70 days.....	\$0.20	\$0.35	\$1.00	
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BRUSSELS SPROUTS

Approximately 3500 plants from 1 oz.

$\frac{1}{2}$ oz. Oz. $\frac{1}{4}$ lb.

Long Island Improved.....	\$0.30	\$0.50	\$1.75	
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Cabbages

Early Varieties

Approximately 3000 plants from 1 oz.

Copenhagen Market. 69 days	Early Flat Dutch
Copenhagen Market. Early strain.	Golden Acre. 64 days

Jersey Wakefield. 63 days

Late Varieties

Danish Ballhead Improved. 103 days	Late Flat Dutch. 100 days
	Penn State Ballhead. 105 days

Red Varieties

Red Rock Mammoth

Savoy

Chieftain.

Prices of the above Cabbages:

$\frac{1}{2}$ oz. 30c., oz. 45c., $\frac{1}{4}$ lb. \$1.20, $\frac{1}{2}$ lb. \$1.80, lb. \$3.50

CARROTS

1 oz. for row 300 ft.

California Bunching. 77 days

Chantenay Half Long. Red cored. 71 days

Oz. 25c., $\frac{1}{4}$ lb. 80c., lb. \$2.40

CAULIFLOWER

About 3500 plants from 1 oz.

Extra Early Snowball. 50 days.

Super Snowball. Certified. 55 days.

Prices on above Cauliflowers: Tr. pkt. 50c., $\frac{1}{4}$ oz. 80c., $\frac{1}{2}$ oz. \$1.45, oz. \$2.60, $\frac{1}{4}$ lb. \$7.50, lb. \$22.50

CELERY

About 6000 plants from 1 oz.— $\frac{1}{2}$ lb. for 1 acre

Cornell No. 19. 100 days. Early, easy blanching; highly resistant to fusarium wilt. A cross combining the fine qualities of Pascal type with the color and earliness of Golden Self-Blanching. Plants 25 inches in height; stems thick, rounded and smooth; 10 $\frac{1}{2}$ to 11 inches to joint.

Fleck's Fullheart. Excellent strain. Golden easy blanching. Hearts long and full. Stems thick, rounded and smooth. 20 in. 130 days.

Above 2, each: Tr. pkt. 35c., $\frac{1}{2}$ oz. 80c., oz. \$1.50, $\frac{1}{4}$ lb. \$4.90, lb. \$18.50.

Giant Pascal. 140 days.

Tr. pkt. 40c., $\frac{1}{2}$ oz. 60c., oz. \$1.00, $\frac{1}{4}$ lb. \$3.00, lb. \$9.50

HERB SEEDS

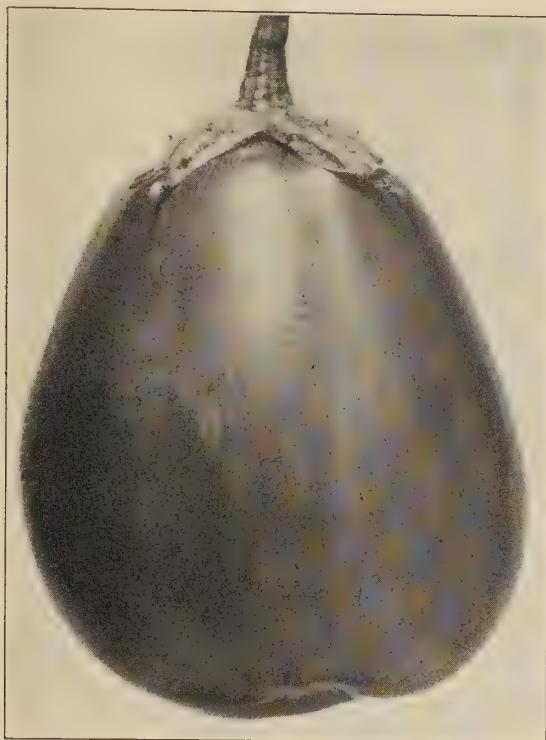
Culinary and Medicinal

$\frac{1}{4}$ oz. $\frac{1}{2}$ oz. Oz. $\frac{1}{4}$ lb. Lb.

Dill..... \$0.25 \$0.60 \$1.75

Sweet Basil..... \$0.25 \$0.45 .85 2.50

EGGPLANT



2000 plants from 1 oz.

Black Beauty. 80 days.

Long Purple (Early Market). 75 days.

New York Improved. 83 days.

Tr. pkt. 30c., $\frac{1}{2}$ oz. 45c., oz. 75c., $\frac{1}{4}$ lb. \$2.25,
 $\frac{1}{2}$ lb. \$3.95, lb. \$7.50

LETTUCE

About 3000 plants from 1 oz.

HEADING VARIETIES

Tr. pkt. Oz. $\frac{1}{4}$ lb. Lb.

Big Boston (Forcing). 75 days..... \$0.30 \$0.75 \$2.25

Iceberg. 84 days..... \$0.20 .35 .85 2.50

New York No. 12. 77 days..... .30 .45 1.00 3.25

Pennlake. 82 days. New. Originated at Pennsylvania State College. Almost ribless. Smooth, uniform, large and heads well in Summer.. .30 .50 1.50 5.40

Premier Great Lakes. 74 days. New. Originated at Pennsylvania State College. 10 days earlier than Great Lakes. Large, solid heads. Smooth, small ribbed and tip burn resistant. .30 .50 1.50 5.40

LOOSE LEAF (CUTTING)

Oz. $\frac{1}{4}$ lb. $\frac{1}{2}$ lb. Lb.

Black Seeded Simpson. 46 days... \$0.30 \$0.70 \$1.25 \$2.00

Grand Rapids (Forcing)..... .20 .60 1.00 1.95

ONION

1 oz. to 100 ft. row, 5 to 6 lbs. to acre

For sets only—Sow 40 to 50 lbs. per acre

Fleck's Long White Bunching Evergreen. Best bunching scallions. Not a bulb maker. Sow Spring and Fall.

Prizetaker. Yellow, good keeper.

Yellow Sweet Spanish (Improved Riverside—Utah). Large globe shaped with yellow skin, white mild sweet fruit. Good keeper.

$\frac{1}{2}$ oz. 35c., oz. 65c., $\frac{1}{4}$ lb. \$1.95, lb. \$5.45

PARSLEY

1 oz. to 150 ft. row; 5 lbs. to acre

Champion Moss Curled

Double Curled or Covent Garden

Hamburg. Rooted.

$\frac{1}{2}$ oz. 15c., oz. 25c., $\frac{1}{4}$ lb. 65c., lb. \$1.95

Peppers



California Wonder

About 1400 plants from 1 oz.

Anaheim Chili. Hot. 80 days **Large Thick.** Red hot. Pimiento. Cool. 72 days

Cayenne, Long Red. Hot. 70 days **Red Cherry.** Hot. 82 days **Sunnybrook (Pimiento).**

Chinese Giant. Cool. 80 days **Cool.** 73 days **World Beater.** Cool. 70 days

Prices of above Peppers: Each, tr. pkt. 25c., $\frac{1}{2}$ oz. 40c., oz. 70c., $\frac{1}{4}$ lb. \$2.00, $\frac{1}{2}$ lb. \$3.50, lb. \$6.00

California Wonder. Cool. 75 days. Tr. pkt. 35c., $\frac{1}{2}$ oz. 50c., oz. 80c., $\frac{1}{4}$ lb. \$2.40, $\frac{1}{2}$ lb. \$4.40, lb. \$8.50.

Hungarian Wax. Hot. 60 days. Tr. pkt. 30c., $\frac{1}{2}$ oz. 45c., oz. 75c., $\frac{1}{4}$ lb. \$2.25, $\frac{1}{2}$ lb. \$4.25, lb. \$8.00.

Sweet Banana. Tr. pkt. 45c., $\frac{1}{2}$ oz. 80c., oz. \$1.25, $\frac{1}{4}$ lb. \$3.50.

Tomatoes

1 oz. to about 4000 plants; $\frac{1}{4}$ lb. to acre.

		$\frac{1}{2}$ oz.	Oz.	$\frac{1}{4}$ lb.	Lb.
Bonny Best. Red. Medium. 73 days.....			\$0.45	\$0.75	\$2.00
					\$5.90
Break O'Day. Red. Globular. 70 days.....		.45	.75	2.00	5.90
Crimson Cushion or Beefsteak. Red. Immense. 90 days.....		.55	.90	2.75	8.40
Earliana. Red flat. Medium. 66 days.....		.50	.90	2.70	7.50
Golden Ponderosa. We recommend Jubilee.					
Grothen's Globe. Bright red. Medium large. 68 days.....		.40	.70	2.00	6.00
John Baer. Early red. Medium. 70 days.....		.45	.75	2.00	6.00
Jubilee. Yellow skin. Deep orange flesh. Best non-acid.....		.60	1.00	3.00	....
Marglobe Certified. Scarlet red, globular. Immune to rust and blight. 77 days.....		.45	.75	2.25	6.95
New Stone. Red. 86 days.....		.45	.70	2.20	6.80
Oxheart. Pink. Heartshape. 90 days		.85	1.60	4.00	....
Ponderosa. Pink, flushed purple. Longest size of all. 88 days.....		.75	1.00	2.85	8.50
Pritchard or Scarlet Topper, Certified. Red globular. Large. 76 days.....		.40	.75	2.25	6.50
Pennheart......		.80	1.15	3.90	....
Rutger's Certified. Similar in shape to Marglobe. Deep red inside. 86 days.....		.40	.70	2.10	6.25
Stone. See New Stone					
Valiant. Large, early red. 68 days..		.50	.85	2.90	6.95

HYBRIDS

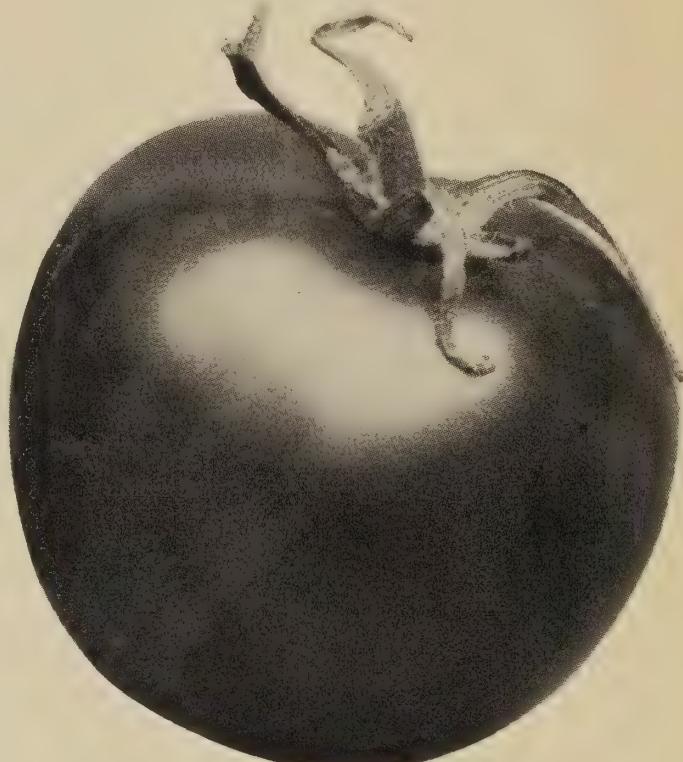
Burpee Big Boy.

Tr. pkt. \$3.00, $\frac{1}{8}$ oz. \$7.00, $\frac{1}{4}$ oz. \$12.00, $\frac{1}{2}$ oz. \$22.00

Burpee Early Hybrids.

Tr. pkt. \$2.50, $\frac{1}{8}$ oz. \$6.00, $\frac{1}{4}$ oz. \$10.00, $\frac{1}{2}$ oz. \$18.00

KEYSTATE. Seeds we offer were produced at Penna. State College. About 8000 seeds to oz. Tr. pkts. \$2.00, 1/16 oz. \$3.50, $\frac{1}{8}$ oz. \$6.50, $\frac{1}{4}$ oz. \$12.50



Tomato, Marglobe



Tomato, Crimson Cushion

SPINACH

1 oz. to 75 ft. of drill; 10 to 12 lbs. to acre

Oz. $\frac{1}{4}$ lb. Lb. 5 lbs.

New Zealand. Best Summer variety.

Stands heat and drought. 70 days. \$0.25 \$0.40 \$1.20 \$5.75

RADISH

1 oz. to 75 ft. of row; 8 to 10 lbs. to acre

Fleck's Early Scarlet. Globe. Short top. Ideal greenhouse forcer. 23 days.

Icicle. Long white.

Oz. 20c., $\frac{1}{4}$ lb. 40c., lb. \$1.25

Fleck's Lawn Grass Seed



Our Quality Guarantee—We offer the best quality—recleaned seeds—high in purity and of strong germination. All our deliveries are uniform. Every bag or sack is tagged to comply with your State Regulations.

FREIGHT—Allowed or Prepaid—on Lawn Mixtures—200 lbs. up to 500 miles

STANDARD LAWN MIXTURES

FLECK'S PREMIUM BLEND. A top notch mixture composed of a very generous percentage of Kentucky Blue, Red Top, Chewings Fescue, Creeping Red Fescue, and Bent Grass. Will produce a permanent turf. Finest mixture you can buy regardless of price.

5 lbs.....	\$5.90	25 lbs.....	\$28.50	100 lbs.....	\$110.00
10 lbs.....	11.50	50 lbs.....	56.00		

FLECK'S GREENVALE MIXTURE. Blended of well-balanced imported and native grasses to produce a permanent turf, pleasing in color and texture. Grows rapidly and thrives even under adverse weather conditions. Contains a sufficient variety of turf grasses to insure a continuance of color during the heat of Summer and cooler days of Fall. Composed of Colonial Bent, Fancy Kentucky Blue, Red Top, Creeping Red Fescue, and Perennial Rye Grass. Seed count, approximately 2,000,000 per pound.

2 lbs.....	\$2.15	10 lbs.....	\$8.90	50 lbs.....	\$39.00
5 lbs.....	4.75	25 lbs.....	22.00	100 lbs.....	76.50

FLECK'S PARK LAWN MIXTURE. A special blend to supply those demanding a fair mixture containing Blue Grass at minimum of cost. Composed of Rye Grass, Kentucky Blue, Timothy, Red Top and White Clover. Truly a good all-around mixture that will give much satisfaction. Well adapted for resale purposes to buyers who want a good lawn at low cost.

5 lbs.....	\$2.95	10 lbs.....	\$5.90	100 lbs.....	\$47.50
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DOMESTIC RYE GRASS. Annual and perennial mixed.
10 lbs..... \$2.40 100 lbs..... \$18.00

PERENNIAL RYE GRASS.

10 lbs.....	\$4.00	100 lbs.....	\$35.50
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WHITE DUTCH CLOVER FOR LAWNS, Recleaned.

¼ lb.....	\$0.55	Lb.....	\$1.70	5 lbs.....	\$7.60
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Write for Prices on Larger Quantities

FLECK'S DEPENDABLE BULBS

AMARYLLIS



Giant American Hybrids (Hippeastrum). The finest race of Amaryllis in cultivation, exceeding in size and fine form of their flowers as well as in the diversity of colors and markings, all former hybrids.

	Doz.	100
2 $\frac{3}{4}$ -3 in.....		\$3.50 \$25.00
3-3 $\frac{1}{4}$ in.....	4.50	32.00
3 $\frac{1}{4}$ -3 $\frac{1}{2}$ in.....	4.95	39.50
25 at 100 rate		

ANEMONE, St. Brigid Doubles



New Crop—September

Vivid and showy colors. Do well in most any soil. Plant $\frac{1}{2}$ inch deep in sunny location. Set about 10 inches apart and give plenty of water. Can be planted the year round.

Mixture. Top size, 85c. per doz., \$1.50 per 25, \$4.50 per 100, \$30.00 per 1000.

BEGONIAS - Tuberous Rooted



Camellia Flowering

Ready December

These make excellent pot plants for late Winter and Spring sales.

Camellia-Flowering — 2 in. up

Copper	Crimson	Pink	Rose	White
Orange	Salmon	Scarlet	Yellow	

Fleck's Mixture of above colors.

\$4.90 per 25, \$17.60 per 100, \$154.50 per 1000

Carnation-Flowered

In Separate Colors or Mixed as noted for Camellia-flowered, except Salmon and Pink shades, not available.

2 in. up, \$5.45 per 25, \$19.60 per 100, \$175.00 per 1000

Note—If separate labeling is desired, orders must be for at least 25 of a color; 100 rate allowed on 50 up, 300 up at 1000 rate.

Special Mixture

For the florist who wants a large selection of colors in both above types we offer a special mixture of 25 for \$5.30, \$18.60 per 100, \$162.00 per 1000.

CALLA - Elliottiana Western Grown

Make very attractive pot plants.

Golden Yellow	Doz.	100	1000
2 to 2 $\frac{1}{2}$ in.....		\$3.00	\$17.50 \$155.00
2 $\frac{1}{2}$ to 3 in.....	4.50	32.50	295.00

Cases of 200 to 250 at 1000 rate if ordered by case;
25 at 100 rate

FLECK'S DEPENDABLE BULBS

CALADIUM - Fancy-leaved



Bright Colors

Choice bulbs that have been well ripened and carefully selected from excellent strains of highly colored varieties.

250 at 1000 rate

Rainbow Mixture	25	100	1000
1½ to 2½ in.....	\$4.90	\$18.50	\$170.00
2½ to 3½ in.....	7.50	27.50	260.00

Culture

Soil should be slightly acid, pH 6.2 to 6.5. One part leaf mold, rotted manure and loam. Good drainage is necessary.

Light is important. Give as much strong light as possible without burning leaves, otherwise colors will not be bright.

Temperature should be 80 to 85 degrees, the higher the better. Reduce heat gradually to harden off plants. Start the bulbs in flats and place on steam flows if possible.

Water sparingly until sprouts and roots are 4 to 6 inches long, then shift to 5 or 6 inch pots. Never allow the pots to dry out when in full growth.

LILUM CROFT—See our Fall Catalog

LILUM REGALE (Oregon Grown)

Pure white with golden yellow throat. Height 4 feet. Vigorous grower and free flowering during July. May be planted Spring or Fall. Likes well drained soil and sunny locations.

Size	Quantity	100
8-9	200 per case.....	\$19.00

GLOXINIAS



New Crop—December

Selected Strain of Superb Varieties in the Richest Colors

Blanche de Meru. White throat, pink border.

Emperor Frederick. Scarlet with white margin.

Emperor William. Deep violet, margined white.

Etoile de Feu. Brilliant red.

Hollywood. Royal blue.

Mont Blanc. Pure white.

Princess Elizabeth. White, blue border.

Queen Wilhelmine. Dark pink.

Tigrina (Spotted and Stained Hybrids). Large flower with short throat; entire blossom veined and spotted in a mixture of pink, blue, purple and red markings on white.

Mixture of all above.

2 in. up, best forcing size—separate colors or mixture.

\$3.75 per doz., 25 for \$6.80, \$24.90 per 100

300 up at \$22.50 per 100

NOTE—MINIMUM ORDER, 1 DOZEN OF A VARIETY

RANUNCULUS (Top Size)



These claw-like bulbs should be planted with the claws downward, 2 inches deep, 10 inches apart. Vivid colors. Handle similar to Anemones.

Fleck's Mixture.....	25	100	1000
	\$1.25	\$4.00	\$35.00

250 at 1000 rate

FLECK'S DEPENDABLE BULBS

Cannas — EXTRA CHOICE, STRONG DIVISIONS

We supply certified Western-grown stock. This fine, vigorous strain we found to be far superior to Eastern grown. Price is higher but worth even more than the small difference. Order early as these are usually sold out by March 1st.

Strong divisions, 2 to 5 eyes.

Eureka. 4 ft.....	White with green leaves
Firebird. 3 ft.....	Large red flowers; green foliage; distinctive
Hungaria. 4 ft.....	Glowing pink; green leaf
King Humbert. 4 ft.....	Orange scarlet, bronze leaf
The President. 4 ft.....	Rich scarlet; green leaf
Yellow King Humbert. 4 ft.....	Yellow spotted red; green leaf

Each, above: \$8.00 per 100, \$75.00 per 1000

25 of one variety at 100 rate, 250 at 1000 rate



King Humbert Canna

Fleck's Gladiolus

High Crown Bulbs—Northern Grown

Clean, free of disease and thrip. Full of vitality. The finest quality "Glads" ever seen anywhere. Properly graded. These bulbs have not been used previously for cut flowers, therefore, they are the best for florists use. We recommend No. 1 or No. 2 size for greenhouse forcing. For outside, No. 2 and No. 3 give excellent results.

		1st Size	2nd Size	3rd Size	Prices F.O.B. Mass.
	500 bulbs of any one variety at 1000 rate				
	Minimum order, 100 of a variety but total order at least 500	1½ in. up	1¼ in. up	1 in. up	
		100	1000	100	1000
Adinda. Yellow.....		\$4.00	\$32.00	\$3.50	\$26.00
Alfred Noble. Dark pink, white throat.....		4.50	36.00	3.80	30.00
American Beauty. Rose.....		4.50	36.00	3.80	30.00
Benjamin Britton.		4.25	35.00	3.70	29.00
Bloemfontain. Pink.....		4.50	36.00	3.80	30.00
Blue Herald.		4.00	32.00	3.50	26.00
Capehart. Fine pink.....		3.50	29.00	3.00	22.00
Elizabeth The Queen. Light lavender, ruffled; a newer variety of great merit.....		4.00	32.00	3.50	26.00
Ethel Cave Cole. Light pink, deeper throat. Excellent.....		4.00	32.00	3.50	26.00
Florence Nightingale. White.....		5.00	44.00	4.50	36.00
Friendship. Pink.....		5.00	44.00	4.50	36.00
Hans Van Meegeren. Yellow.....		4.50	36.00	3.80	30.00
Harry Hopkins. Dark red.....		5.00	44.00	4.50	36.00
Konynenburg. Orange red.....		4.50	36.00	3.80	30.00
Leeuwenhorst. Large Hydrangea pink.....		4.50	36.00	3.80	29.00
Margaret Fulton. Clear rose salmon.....		3.50	29.00	2.75	22.00
Memorial Day.		4.25	35.00	3.70	29.00
Modern Times. Wine.....		4.50	36.00	3.80	29.00
Monseur. Dark red.....		4.00	32.00	3.50	26.00
New York. Dark velvet red.....		4.50	36.00	3.80	30.00
Pactolus. Orange, red throat.....		4.25	35.00	3.70	29.00
Palette. Red.....		5.00	45.00	4.50	36.00
Phantom Beauty. Pink.....		5.00	45.00	4.50	36.00
Picardy. Large, salmon pink.....		4.00	35.00	3.50	28.00
Princess Beatrix. Orange.....		3.50	29.00	3.00	22.00
Snow Princess. Extra large, pure white.....		3.50	29.00	3.00	22.00
Spic and Span. Pink.....		5.00	44.00	4.50	36.00
Spotlight. Beautiful yellow with red blotch.....		5.00	44.00	4.50	36.00
Valeria. Red.....		4.25	35.00	3.70	29.00
Wedgewood. Lavender.....		5.00	44.00	4.50	36.00
Special Florists Mixture (includes higher priced varieties).....			35.00	30.00	25.00

Fleck's Plants and Cuttings

Minimum Order for Plants or Cuttings \$20.00

We offer these items for direct shipments from only the most reliable specialists.

We cannot guarantee safe arrival as this is entirely beyond our control. If shipments are spoiled or damaged in transit, take delivery and get "Exception Report" from expressman at time of delivery and proceed to collect from Express Company.

All prices F.O.B. source and subject to market changes. Prevailing price as set by the producer will be charged at time of shipment, plus packing charges, if any.

All orders are booked subject to the growers' ability to ship at proper time.

We cannot accept orders with specific delivery dates.

Azaleas

FOR FORCING

KURUMES, KAEMPFERIS, GABLES (Hardy Types)

E Coral Bells—hose in hose, light pink
EM Hinodegiri—single, cerise red
EM Hino Crimson—single, crimson
EM Snow—hose in hose, white
ML Bond Street—semi-double, mallow pink
ML Caroline Gable—hose in hose, cerise red
ML Eliz. Gable—hose in hose, light lavender
ML 46-G—hose in hose, darker lavender
ML K-7—hose in hose, light salmon
ML K-18—hose in hose, bright pink
ML Orange Cup—hose in hose, orange
ML Salmon Special—hose in hose, ruffled salmon
ML Maxwellii Alba—single, white

Prices On Above

	4/6	5/7	6/8	8/10	10/12	12/14	14/16
Fall.....	.57	.75	.85	1.20	1.50	2.00	2.50
Winter.....	.60	.80	.90	1.27	1.60	2.10	2.65
March.....	.60	.80	.90	1.27	1.60	2.10	2.65
Mother's Day....	.60	.80	.90	1.27	1.60	2.10	2.65
Potted.....	.70	.95	1.05	1.45	1.85	2.40	3.05
(dormant)							

PERICATS and SEMI-HARDIES (Larger Flowers)

EM Alice Muller—semi-double, bright pink
EM Dawn—hose in hose, light pink
M Easertide—hose in hose, ruffled salmon
EM Fortune—hose in hose, bright salmon red
M Gardenia—semi-double, white
ML Morning Glow—hose in hose, light pink
M M. R. Mulford—hose in hose, cerise red
EM Pericat Salmon—hose in hose, salmon, compact
E Pericat White—hose in hose, white
M Pink Supreme—hose in hose, medium pink
M *Redwing—hose in hose, ruffled cerise red
EM Sensation—hose in hose, medium pink, compact
M Splendor—hose in hose, medium pink
EM Sweetheart Supreme—semi-double, blush pink

Prices On Above

	4/6	5/7	6/8	8/10	10/12	12/14	14/16
Fall.....	.57	.75	.85	1.20	1.50	2.00	2.50
Winter.....	.65	.85	1.00	1.40	1.75	2.30	2.90
March.....	.73	.95	1.10	1.55	1.90	2.55	3.20
Potted.....	.88	1.10	1.25	1.75	2.15	2.85	3.60
(dormant)							

15c. per plant additional.

INDICAS (Not Hardy, Large Flowers)

EM Albert and Elizabeth—double, salmon and white
EM Candystick—double, red and white variegated
M Jean Haerns—double, bright pink
E Paul Schame—double, salmon
EM Triomphe—double, cerise red
ML Vandercryssen—double, dark pink
EM Vervaeana—double, pink and white
EM Vervaeana Alba—double, white

Prices On Above

	4/6*	5/7*	6/8*	8/10	10/12	12/14	14/16
Fall.....	.80	1.00	1.20	1.75	2.25	2.85	3.50
Winter.....	.88	1.10	1.35	1.95	2.50	3.15	3.90
March.....	.95	1.20	1.45	2.10	2.75	3.40	4.20
Potted.....	1.05	1.35	1.60	2.30	3.00	3.70	4.60

(dormant)

Mostly own root.

EXPLANATION OF TERMS

E —forces for Christmas.
EM —generally makes Christmas, good January forcer.
M —forces from Mid-February on.
ML —forces from Mid-March on.

By holding plants cool, Azaleas in any of above categories can be timed for later flowering than indicated.

i.e.—"E" Coral Bells can be from Christmas through Easter.

"ML" K-7 can be flowered for Easter through Mother's Day.

Fall price prevails for plants delivered by Mid-November.
Winter price prevails for plants delivered in December through February.

March price prevails for March shipments.

Mother's Day price prevails for delivery after Easter.

Potted (dormant) price prevails for potted plants delivered at any time.

VARIETAL SELECTIONS

Specific orders will be accepted for a minimum of 5 plants of one variety and size. We suggest, however, for Pericats and Indicas, that varietal selection be left to us in order that you get best choice of stock. We have smaller stocks of unlisted varieties that are just coming into production. On unspecified orders it is generally possible to include some of these newer items. Substitutions on specified orders will be made only where necessary, and major substitutions will be made only with consent of buyer.

Further instructions, next page

Azaleas—CULTURAL DIRECTIONS

CULTURAL SUGGESTION

Before Arrival of Plants:

A proper storage location should be selected and prepared so that plants can be placed without rehandling. Hardy varieties can be kept in cold frames with mat and sash protection, provided the winters are not excessively cold. Tender types should be placed in cold greenhouse or heated frame.

It is generally convenient to heel plants in peat moss. Peat should be new or sterilized to minimize disease problems.

On Arrival:

Plants should be placed in desired location so that tops are just touching. They should be thoroughly watered at this time. Plants with frozen root-balls should be placed in a cool, dark location until thawed.

Temperature During Dormancy:

Azaleas should be held as cool as possible during the day, and night temperature during Fall and Winter should be maintained slightly above freezing for best curing. Hardy plants stored in cold frames can tolerate freezing conditions, if frames are tight and covering is adequate.

Light During Dormancy:

Full light seems best for dormant plants, but they can also tolerate semi-shading during dormancy. During warm Springs it may be necessary to shade houses in order to keep plants in a dormant condition.

Water and Fertilizer:

Plants should be kept moist during storage, and frequent syrings are desirable. Amount of water needed depends on light and temperature. It is best to water plants in the morning so that they will be dry by night. Light feedings at 6 or 8 week intervals during storage seem helpful in maintaining foliage and color.

Insecticides and Fungicides:

Generally not necessary during storage. It is advisable to spray or fumigate plants at the start of forcing, however.

Potting:

Plants may be potted at anytime during dormancy. Potting should be completed before the start of forcing period. It is generally necessary to prune roots in order that plants will fit in proper pots. Azaleas look best in 3/4 or "Cyclamen" pots. A 4/6 will generally fit in a 4" pot, a 5/7 in a 5", a 6/8 in a 5" or 6", an 8/10 in a 6" or 7", etc.

Forcing:

This is largely a matter of timing (see accompanying schedule). Careful watering is essential, and otherwise little other care is necessary. On some varieties, leafy growth will begin around flower buds before plants bloom. This growth should be removed for best appearance of the plants.

SHIPPING

All prices are F.O.B. Linwood, N. J. We make truck deliveries within 500-600 miles at nominal cost. Remote orders are generally packed and trucked to nearest express office to save you excessive transport charges. Where truck delivery cannot be arranged, all shipments are made via Railway Express, unless otherwise instructed.

TIMING THE FORCING OF AZALEAS

	E wks.	EM wks.	M wks.	ML wks.
*Christmas Bloom.....	5-6	6-7	..	..
January Bloom.....	4-5	5-6	6-7(?)	..
February Bloom.....	3-4	4-5	5-6	6-7(?)
March Bloom.....	2-3	3-4	4-5	5-6
April Bloom.....	1-2	2-3	3-4	4-5
May Bloom.....	..	hold cool 2	..	2-3

Above estimates are reasonable approximations for forcing time at temperatures of 60-65 at night. Higher temperatures will hasten forcing. If storage temperatures prior to forcing have been rather warm, plants will come into bloom more rapidly than indicated.

Despite the "rules" there is no substitute for good judgment and careful observation in order to assure best flowering at the proper time.

For best results, these plants should be specially treated to assure flowering. Consult grower.

AGERATUM (Minimum order, 250 of a variety)

FLECK'S "DEVON BEAUTY." This fine new discovery has proven itself for several years. Stays dwarf, about 8 in., self branching and stands hot weather very well. Outstanding for size of blooms which are a nice shade of sky blue and measure upwards of 3 in. Early, and free blooming.
Rooted Cuttings, \$30.00 per 1000.
Minimum order, 250 for \$9.00.

Dwarf Riverside. Rooted Cuttings, \$30.00 per 1000; 2 1/4 in., \$10.00 per 100.

Cardinal Mundelein. Rooted Cuttings, \$5.00 per 100, \$30.00 per 1000.

ASPARAGUS

Plumosus or Sprengeri	100	1000
2 1/4 in., extra heavy.....	\$12.00	\$100.00
Minimum order 100; 500 at 1000 rate		

BEGONIAS - For Christmas

Orders Must Be Placed Early

Fine, 2 1/4 in., ready May and June. Grown by specialists.

Genesee Beauty **Marjorie Gibbs**

Lady Mac **Melior**

\$13.00 per 25, \$37.50 per 100, \$355.00 per 1000

Corallina De Lucerna (Angel Wing).

2 1/4 in.....	\$22.00 per 100
Minimum order, 25 for \$6.50	

CALCEOLARIA

Multiflora Nana, 2 1/4 in..... \$18.00 per 100

Miscellaneous Plants and Cuttings

CINERARIA

	2½ in.	
Ready about September		
	100	250
Cremer's.....	\$10.50	\$23.50
Siter's.....	10.50	23.50

COLEUS - R. C.

Minimum order—100 of a variety

Brilliancy	Hollywood Red
Cardinal Red	Queen Victoria (Red, golden border)
Christmas Gem	Red Trailing Queen
Golden Bedder	Trailing Queen
Green Goddess	Verschaffelti

\$6.00 per 100, \$40.00 per 1000

CYCLAMENS

Grown by specialist in sterilized soil. Seedlings ready January to May. 2½ in. April to July.

All Standard Colors	100	1000
Transplanted Seedlings.....	\$16.50	\$150.00
2½ in.....	27.50	250.00
3 in. Ready June-July-August.....	37.00	.....
4 in. Ready August-September.....	85.00	.....

Minimum order, 100 on seedlings; 25 on 2½ in. up at slightly higher rate.

Daphne
ORDER NOW FOR 1956



Beautiful Rose Pink — Delightfully Fragrant
Over 500,000 Specimen Plants Grown Especially
for Forcing

	10	25	100
5- 7 in. spread.....	\$10.00	\$24.00	\$93.00
7- 9 in. spread.....	14.00	36.00	125.00
9-12 in. spread.....	18.00	44.00	155.00
12-15 in. spread.....	22.00	55.00	194.00

These can also be shipped bare root, puddled at 10 cents less per plant. This saves expressage, and if potted immediately on arrival, do just as well as those shipped with soil.

Rooted Cuttings. Ready March 15 for growing on.
Per 100, \$18.00; 1000 for \$170.00.

GERANIUMS

2½ in.

We supply all **good blooming stock**—Order early and at least 60 days ahead of shipping date.
250 at 1000 rate



RED SHADES

	100	1000
Better Times. Dark red.....	\$14.00	\$130.00
Haase's Red (Pat. No. 875). Sold in units of 50.....	14.00	130.00
Olympic Red	14.00	130.00
Pride of Camden (True Strain).....	14.00	130.00
Red Landry	14.00	130.00
Ricard Improved	14.00	130.00
Super Improved Ricard (1949). Blooms profusely and continuously. Makes a large, bushy plant with plenty of blooms.	15.00	135.00

PINK and SALMON SHADES

Daybreak. Salmon pink. Shade lighter than Landry but darker than Poitevine. Does not fade.....	\$15.00	\$135.00
Irvington Beauty. Originator's stock.....	14.00	130.00
Mme. Landry. Salmon pink.....	14.00	130.00
Picardy. Salmon pink; good variety.....	14.00	130.00
Pink Fiat	14.00	130.00
Poitevine Improved	14.00	130.00
Wallingford. Salmon pink.....	14.00	130.00

WHITE

Madonna, Improved	\$14.00	\$130.00
Mme. Buchner	14.00	130.00
Springfield Violet	14.00	130.00
Springfield White	14.00	130.00
White Perfection. Fine white with full blooming centers.....	15.00	135.00

Carnation Cuttings Rooted

Minimum orders, not less than 100 of any one variety; 250 of one variety sold at 1000 rate.

Patented varieties indicated by * or subject to grower's agreement

New varieties of merit will be found in their respective color class.

PINKS

	100	1000
Aphrodite (Yoder). Light pink. Good producer.....	\$13.00	\$110.00
Apollo (Yoder). Larger than Netta and about same shade of Salmon Pink.....	11.00	90.00
Charm . Beautiful salmon pink.....	20.00	150.00
*Citation . Rose pink. Silver edge.....	15.00	125.00
*Coral . New brilliant salmon, at times slightly flaked. Healthy grower. Strong stems. Blooms 3½ in. Very productive.....	22.00	180.00
*Harlequin . Flesh pink with wine red markings.....	15.00	125.00
Hercules Virginia . Giant sport of Virginia Light Pink.....	15.00	125.00
Hoosier Desire . Clear light pink. Large full flower. Stems long and stiff. Above average production.....	20.00	175.00
*Lexington . Salmon pink seedling. Large blooms. Heavy stems. Good producer and shipper. Does not split. Disease resistant. 20.00 150.00		
Light Pink Littlefield (Petersen). Similar to Hercules Virginia.....	15.00	125.00
*Light Pink Northland . New sport of Northland. Flesh pink. Quality and growing habits same as Northland.....	22.00	180.00
*Pink Sim . Light pink. True sport of Wm. Sim. Excellent.....	14.00	120.00
*Portland Pink . Clear vivid pink. New. Excellent.....	20.00	150.00
SALMON SIM . Sport of Pink Sim.....	14.00	120.00

PINKS—Continued

	100	1000
Sidney Littlefield . Rich deep pink, large blooms.....	\$15.00	\$125.00
VENUS . Excellent flower quality. Salmon pink.....	13.00	110.00
Virginia Miller . Improved Virginia. Rose Medium pink.....	12.00	100.00

WHITES

Achilles (Yoder). Very large white. Productive.....	\$13.00	\$115.00
Hoosier Spice . Pure white large full flower. Very fragrant. Stiff stems. High producer. 20.00 175.00		
Mercury . Similar to but larger than White Fisher.....	15.00	125.00
Northland . Large-flowered.....	12.00	100.00
Olivette Improved . Better strain of the original.....	11.00	95.00
White Boston (Patten). Good size, medium length stems. Does not split. Produces similar to Olivette.....	20.00	150.00
White Appolo . White sport of Appolo.....	16.00	140.00
*White Sidney Littlefield (Hudson). Pure white, sport of Sidney Littlefield. Has all the good characteristics of its parent, large flower, good, stiff stem and good producer..	15.00	125.00
White Sim (Patten). Clear white sport of William Sim. Identical in every respect except color.....	15.00	125.00
White Sim Improved (Yoder).....	15.00	125.00



Carnations—One of Our Specialties

Carnation Cuttings Rooted

Minimum orders, not less than 100 of any one variety; 250 of one variety sold at 1000 rate

Patented varieties indicated by * or subject to grower's agreement

New varieties of merit will be found in their respective color class

REDS

100 1000

Cardinal Sim (Yoder). A shade lighter than Wm. Sim.....	13.50	\$120.00
Dark Red Sim	15.00	125.00
*Jumbo Cardinal	15.00	125.00
Majestic (Patten). New seedling red. 3½-4 in. Brighter than Wm. Sim, heavier stem, wider leaf, large calyx. Restricted.....	22.00	180.00
Scarlet Sim. Similar to Scarlet King.....	14.00	120.00
Siren. Bright scarlet.....	13.00	115.00
*Tom Knipe. Scarlet.....	15.00	125.00
Tetra Red. Better color than Wm. Sim. Blooms average almost 5 in. Heavy stems.....	18.00	150.00
*Wm. Sim. Vivid scarlet; one of the best....	20.00	150.00
Wooster Scarlet. New red.....	12.00	100.00

Minimum order 250, 500 at 1000 rate

YELLOWS

Harvest Moon. Golden yellow.....	\$15.00	\$125.00
Hoosier Gold. Clear yellow with slight pink stripes. Healthy grower with stiff stems...	20.00	175.00
Midas (Yoder). Excellent large clear yellow..	12.00	100.00
Miller's. Trombetta's improved color.....	14.00	120.00
*Pattens Yellow. Clear yellow, strong stems, no grassy growth. Flowers 3 in. up. Splendid shipper and keeper. New.....	20.00	150.00
Shirley Ann. Good producer. Disease free. 15.00	125.00	
Tait's Yellow Sim. (Ready Dec. 1956). Canary yellow sport of White Sim.....	25.00	200.00

LAVENDER

Lavender Rose (Rasmussen). Very pleasing true lavender color.....	\$15.00	\$125.00
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MAROON

Mrs. C. W. Weld. Crimson. Maroon seedling. Early bloomer. Does not split. Vigorous, good producer and keeper.....	\$10.00	\$80.00
*Topper. Rich velvety maroon, a shade deeper than Seth Parker. Long, rigid stems. A good commercial crimson.....	15.00	125.00
Vulcan (Yoder). Excellent keeper. Good comeback. Crimson-maroon.....	14.00	120.00

ORCHID

*Mrs. Bradford (Patten). Clear orchid; under artificial light is a bright pink shade; flowers 3 to 4 in.....	\$20.00	\$150.00
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VARIEGATED

100 1000

Barbara Brigham. Pink stripes on orange, very attractive and large-flowered.....	\$10.00	\$90.00
Dairy Maid. White with pink stripes. One of the best.....	12.00	100.00
Harlequin. Flecked lavender edge on white. 15.00	125.00	
*Helene (Olson's Greenhouses). Sport of Orange Wonder. Peach suffused with yellow. Free flowering, good keeper, does not split.....	20.00	150.00
Mamie. White variegated sport of Wm. Sim, with red markings.....	15.00	125.00
Pelargonium. White ground, overlaid with maroon and orchid.....	15.00	125.00
Peppermint Littlefield. Pink variegated..	15.00	125.00
*Sandra (Patten). A free blooming novelty, similar to Scarlet King, of a more pleasing color. Flowers 3 in. up.....	20.00	150.00
Sarah Jane Knipe. Magenta with silver edge.....	20.00	150.00
Saturn (Yoder). Beautiful warm orange bronze, with pink stripes.....	14.00	125.00
Scarlet King. Orange red with silver edges. 15.00	125.00	
Scarlet Queen. Sport of Scarlet King. More alive orange variegation.....	15.00	125.00
Starlite. Sport of Olivette, white variegated. Flower is size of Olivette, with pink stripes. 10.00	90.00	
*Symphony. Reddish purple stripes on mauve background. Large flowers, good producer. Stiff, medium stems.....	20.00	150.00
*Tetra-Sarah Jane. Tetraploid, Magenta with silver edges. Extra large blooms.....	25.00	200.00
Unique. A novelty. Rich purple with an orchid edge; 3 to 4 in. strong stem. Productive.....	12.00	100.00
*Valentine. Bright scarlet center, each petal has a distinct white edge; 3 in., very productive with a good stem; an excellent keeper.....	20.00	150.00

Miscellaneous Plants and Cuttings

FUCHSIA

Minimum order in cuttings, 100 of a variety

Bagdad. Center lavender on red background; taller than Little Beauty.
Little Beauty. Similar to Bagdad.
Giant Pink. Red with double light pink center.
Black Prince. Red, single.
Speciosa. Single pink with lighter center.
Trophee. Red with blue center.
Lavender Beauty. Red with double lavender center.
Rosaia. Red with double white center.
Lord Byron. Single red with purple center.
Cupid. Dwarf pink.
Pink Pearl. Pink.

	100	1000
Rooted Cuttings.....	\$ 6.50	\$ 60.00
2½ in.....	13.50	125.00

NEW VARIETIES (Double)

These are fast and vigorous growers, with many shoots without pinching. February cuttings will make 5 inch plants by Mothers' Day.

Winston Churchill. Blue.

Holly Dale. Pink.

White.

	100	1000
Rooted Cuttings.....	\$ 8.00	\$ 55.00
2½ in.....	14.00	130.00

IVIES

250 at 1000 rate	100	1000
English, 2½.....	\$10.00	\$90.00
Grape (Vitis), 2½.....	12.00	110.00
Green Ripple.....	13.50	130.00
Hahn's. New, variegated, 2½.....	17.50	150.00
Hahn's Regular.....	10.00	95.00
Merion Beauty, 2½.....	11.00	100.00
Parlor, 2½.....	8.50	70.00
Pin Oak.....	12.50	120.00
Pittsburg, 2½.....	12.50	120.00
Self Branching, 2½.....	12.00	110.00

LANTANAS



YELLOW

Golden King

YELLOW and PINK

Sensation

YELLOW and BUFF

Delicatissima

2½ in. pot plants at \$12.50 per 100, \$115.00 per 1000

WHITE

Alba Perfecta Mixture

RED and YELLOW

Michael Schmidt Radiation

IF IT'S THE BEST—WE HAVE IT

Hydrangeas



We offer these from leading specialists. Order now for Spring and Fall, 1955. Stock limited.

*Blues easily; E—Early; M—Midseason; L—Late
Orders accepted in units of 25 of a variety.

Previous Introductions

**"jean merritt" (M).....	Dark pink
**"bobby merritt" (M).....	Coral bell pink
Engel's White (M).....	Strong grower
Merveille (L).....	Light red
*Strafford (M).....	Dark pink

Prices per 100: Rooted Cuttings \$16.00,
3 in. \$30.00, 4 in. \$55.00, 5 in. \$65.00, 6 in. \$90.00

Standard Varieties

Altona (E).....	Clear pink
*Europa (E).....	Salmon pink
*Gertrude Glahn (M).....	Dark rose
Hamburg (E).....	Carmine
*Kuhnert (M).....	Rose pink
Regula (E).....	White
*Rosabelle (L).....	Rose pink

Prices per 100: Rooted Cuttings, \$14.00,
3 in. \$25.00, 4 in. \$50.00, 5 in. \$60.00, 6 in. \$85.00

Novelties

*Benelux (M).....	Rose pink
Charm (E).....	Carmine red
*Dundalk (M).....	Medium red
Joan Merritt (M).....	New white
President Eisenhower (M).....	Carmine
Red Star (M).....	Brilliant red
*Rose Supreme (M).....	Rose pink
Southland (M).....	Carmine
Springtime (E).....	Carmine pink

Prices per 100: Rooted Cuttings \$20.00,
3 in. \$40.00, 4 in. \$60.00, 5 in. \$70.00, 6 in. \$100.00

Flowering Shoots per Plant:

3 in.....	1 shoot	6 in.....	4 or more shoots
4 in.....	2 or more shoots	7 in.....	7 or more shoots
5 in.....	3 or more shoots	8 in.....	8 or more shoots

Fleck's Pelargoniums

STANDARD VARIETIES—Best Selection

Amanda. Reddish orange to scarlet with white center. Dark blotched on upper petals.

Azalea. Rosy red. Free bloomer and very large flowers and clusters. Two upper petals darker with blotches, lower petals lighter colored. Strong grower.

Baby Snooks. A new color in the Pansy Pelargonium class. Lower petals palest orchid pink; top petals same ground color, heavily veined rose-violet, with deep red-black blotch in center, flushed Raspberry toward petal edges. Very free flowering.

Ballerina. Soft shell pink, all petals are ruffled. Large flowers. Very free flowering.

Chicadee. Another Pansy Pelargonium. Lavender, upper petals deep violet blotches. Lower petals violet eyes. Medium sized Pansy flowers. Attractive.

Easter Greeting. Flowers a bright red, each petal marked with a large black blotch. Variety remarkable because of its long blooming season beginning in March.

Edith North. Color salmon pink, shaded deeper on upper petals, blotches dark brown. It is a very vigorous grower.

Ernest Brunton. Camellia red with large crimson blotches on petals. Large flowers.

Grossmama Fischer. Rich clear salmon color. Large, ruffled flowers with dark blotches. Vigorous, upright grower.

Jessie Jarrett. Dark violet, rose and maroon. Valuable addition to dark colored Pelargoniums.

Lavender Queen. Beautiful lavender with large head of bloom. Long flowering period.

Lowell. Vivid scarlet red with black blotches on all petals. Distinctive foliage.

Lucy Becker. Sport of Easter Greeting and is like it in everything but color, which is a pleasing rosy pink.

Mackensen. Fiery rose pink with immense clusters; without blotches.

Mrs. F. Bachler. Deep rose-red. Similar to Easter Greeting except better shape and darker, richer color.

Mrs. Layal. True Pansy Pelargonium. Coloring is white, dark purple, black, etc.

Mrs. Mary Bard. Pure white with light pink veinings. Compact grower.

Orchid Edith North. Orchid pink sport of Edith North. Darker blotches on the two upper petals.

Rhapsody. Tricolor effect with lower petals salmon pink, tinted orange; two top petals solid velvety crimson-black.

Salmon Splendor. Salmon, with apricot undertone. Bushy growth, free flowering. Large, round flowers with petal margins waved.

Salmon Springtime. Sport of Springtime. Beautiful salmon rose pink, much darker than its parent.

Stardust. Palest lilac. Very large flowers with ruffled petals. Free flowering. Bushy growth. Best Lilac variety ever developed.

Swabian Maid. Fine sport of Easter Greeting with salmon flowers of large size, strikingly set off by black blotches at the base of each petal.

Above varieties: 2 1/4 in. \$20.00 per 100, \$190.00 per 1000



PREMIUM VARIETIES

Outstanding in their color range, excellent for pot culture.

Circus Day. Pink. Upper petals deep pink with medium, large, velvety, brown-lilac blotches flushed with salmon. Large heads of very large flowers.

Conspicuous. Shining oxblood or wine red, with elongated black spot in lower petals, veining and blotch in top petals; waved petals edged with a black hair-line. Very large and free flowering. Conspicuous is one of the showiest and most distinct varieties to be introduced in years.

Gay Nineties. White upper petals, with medium sized blotches. Lower petals with a few veins to center. Beautiful large round ruffled flowers.

Grand Slam. Rosy red, with slight salmon undertone. Top petals with velvety red-brown spot, flushed salmon to petal edges. Large flower heads of waved petals. Makes an excellent pot plant.

2 1/4 in. 25 for \$10.00, \$28.50 per 100

See Page 58
For Conditions Under Which
All Plants Are Sold

PETUNIA, Doubles

Strong rooted cuttings. Nice color range of standard varieties.	100	1000
Mixed colors.....	\$6.50	\$55.00
500 at 1000 rate		

POINSETTIA

July, August, September

Oakleaf or Paul Ecke.

Rooted Cuttings.....	Prevailing prices
2 1/4 in.....	Prevailing prices

SNAPDRAGON (Antirrhinum)

GREENHOUSE VARIETIES

Grown from Originator's Seed—Ready September to January
All the best and latest forcing varieties. Order your favorites.
2 in. \$6.50 per 100, \$60.00 per 1000

SPIREA

Strong Clumps, 5 eyes up

Standard Varieties. In pink and white shades.
\$5.00 per doz., \$40.00 per 100.

Freeze roots before potting. Grow 90 days for Easter
75 days for Mothers Day, at temperature of 55 degrees.

VINCA - Major variegata

Ready Fall	100	1000
2 1/4 in.....	\$12.00	\$100.00
3 in. (Ready December).....	22.00	200.00
Rooted Cuttings: Minimum 250 for \$13.75; 500 up, \$4.80 per 100		



Spirea

BUSINESS HOURS

Monday through Friday — 8:30 to 5:30; Saturdays — 8:30 to 5:00

Closed Saturdays during July and August; closed Sundays and Holidays

Extra Hours for Your Convenience

Open Wednesday and Thursday and Friday nights, October 19 till December 16 — 7 to 9:00 P. M.

For Spring 1955—same nights, Feb. 15 until May 11th (except Good Friday night)

Telephones: ELMWOOD 7-0132; ELMWOOD 7-0179

CONDITIONS OF SALES

SHIPPING SERVICE—We mail all Flower Seeds free to any point in the United States, at prices listed in this catalogue. Purchaser pays transportation on all other items.

DISCOUNT ON CASH ORDERS—Flower seed orders: Up to \$25.00, 5%; over \$25.00, 8%. All other items, 2%.

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Fleck's Mums for 1956



Pompons



Standards

HARDIES AS POT PLANTS

For the past several Springs, increasing numbers of growers have finished a batch of hardy or garden Mums in pots for Mother's Day. They are quickly (90 days) and easily grown, make showy and unusual pot plants. They have added sales appeal in that, after flowering, they may be planted outdoors for another crop of blooms in the Fall.

Here is a simple schedule worked out by William Skou at Ohio State: (For May 1 flowering)

VARIETIES—(Date after each variety is flowering date if above schedule is followed)

White

Avalanche.....	April 28	Pepita.....	May 1
Calcite.....	May 7	Renown.....	April 28
Chris. Columbus....	May 7	Silverplate.....	April 29
Classic.....	May 1	White Wonder.....	May 7

Yellow

Bamboo.....	May 3	September Sunshine.....	May 3
Carnival.....	May 7	Witchery.....	May 3
Early Gold.....	April 28	Yellow Christopher	
Early Yellow.....	May 3	Columbus.....	May 1
Gold Rush.....	May 2	Yellow Spoon.....	May 1
Lemonade.....	April 28	Yellow Supreme.....	May 10

Pink

Joybringer.....	May 2	September Cheer....	May 3
Major Cushion.....	May 3	Serenade.....	April 28

Apricot

Calico.....	May 1	Tiffany Rose.....	April 28
		W. P. Snyder.....	April 28

Bronze

Carmelita.....	May 1	James Stewart.....	May 1
Early Bronze.....	April 28	Mona.....	May 1

Orchid

Jewell.....	April 28	Spellbound.....	April 28
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"MUMS," CULTURAL INSTRUCTIONS (Continued next page)

WRITE FOR LATEST PRICE SHEET IF YOU DID NOT RECEIVE
ONE WITH THIS BOOK

"Mum's," Cultural Instructions

By ALEX LAURIE

Professor of Floriculture, Ohio State University

SOILS

A fibrous soil, well aerated by having granular structure and adequate amounts of organic matter, is necessary. The use of manure or peat at the rate of at least one-quarter by volume is desirable. Extremely heavy soils are benefited by inclusion of fine cinders (less than $\frac{1}{4}$ inch) or even sand together with the organic matter such as Michigan Peat.

Acidity

Since Chrysanthemums do best in slightly acid soils, additions of lime are not recommended except in areas where extreme soil acidity exists. However, calcium is often low and in that case in slightly acid or neutral soils gypsum or calcium sulphate could well be added at the rate of 2 lbs. to 100 sq. ft. If available soils are alkaline an application of sulphur at the rate of 2 lbs. to 100 square feet will be found desirable. Since, however, this material is a slow acidifier, it should be added several weeks in advance of planting. A pH of 6-6.5 is best.

Levels of Nutrition

If soils are tested and they really should be, the following levels in parts per million (do not confuse these with pounds per acre) should be maintained: nitrates 10-25, phosphorus 5, potassium 20, calcium 150. It is well, however, not to have the nitrates high at the time of benching—10 p.p.m. is more than adequate then. High nitrates at the start check growth and are frequently responsible for the yellowing of foliage and stunted appearance. Heavy leaching in well drained soil will correct such a condition. Usually superphosphate should be added (5 lbs. to 100 square feet) at the time of soil preparation to insure a proper distribution of that material since surface applications are ineffective for a long time. For a short time crop, such as the Chrysanthemum, slowly acting bonemeal could well be eliminated from consideration.

Steam Sterilization

In this connection, it may be well to state that there is no necessity for the complete removal of soil from benches or beds every year. If the old soil is free of disease, its rejuvenation may be accomplished by the addition of one-fourth of the volume of peat and manure. This addition may be made at the rate of two-thirds peat and one-third well rotted manure. However, it is absolutely important that such soils be sterilized with steam. This serves a dual purpose. It destroys the *verticillium* wilt fungus and at the same time betters the structural condition of the soil.

Steam soil sterilization eliminates most soil pests such as nematodes, symphilids, worms, sow bugs, etc. It is to be preferred to changing soil both from the standpoint of control of pests and diseases and the actual betterment of growth. In addition it saves labor.

FERTILIZERS

Having applied the superphosphate and calcium if needed, either in the form of lime, if soil is acid, or gypsum if slightly acid or neutral, the balance of nutrients in the soil may be maintained by soil tests. Usually, however, two or three applications of a complete fertilizer (4-12-4) will be adequate, made after the plants are established in the bench and until color shows. All commercial fertilizers should be used at recommended rates (4-12-4 at 4 lbs. to 100 square feet) and applied when the soil is moist.

Excesses

Too much nitrogen causes poor growth and development of bright yellow leaves at the *top* of the plant. The nitrogen can only be removed from the soil by leaching and several heavy waterings may be necessary for this purpose. Incorporating chopped straw into the soil will reduce the nitrates by the action of micro-organisms decomposing the straw.

Excess phosphorus is rarely encountered. Too much potash burns the roots and is evidenced by browned leaf margins. Excessive calcium or lime causes the soil to become alkaline, and some of the elements become unavailable. To counteract alkalinity use sulphur at the rate of 2 lbs. to 100 square feet, or iron sulphate at half that rate.

Deficiencies

Lack of nitrogen causes the tops of the plants to lose their dark green appearance and the *lower* leaves to turn yellow, then brown, and cling to the plant. Lack of phosphorus causes the stems of the leaves (petioles) to turn purplish and in severe cases the veins of the leaf turn purple. Deficiency of potassium causes marginal browning of the lower leaves. This deficiency is similar in appearance to the burn from nicotine sprays or fumigations and confusion of the two is common. Either muriate or sulphate of potash at 1 lb. per 100 square feet corrects potash deficiency.

MULCHES

To maintain uniform moisture in the soil and increase growth, once the plants are established, a mulch may well be used. Peats are best, but manure, alfalfa hay, tobacco stems, spent brewers hops, may be used. In case of fresh, strawy manure or alfalfa an application of ammonium sulphate (1 lb. to 100 square feet) should be made at the time of mulching or soon after to avoid check in growth due to the initial withdrawal of nutrients from the soil as the mulches decompose. This is not necessary when peat, tobacco or hops are used, because of their slow rate of decay.

PROPAGATION

Three to four inches of sharp sand that is well drained is the most satisfactory rooting medium. Steam sterilization of the sand prevents damping-off, stem rot, and infection from *verticillium* wilt. Three to four-inch cuttings from stock plants should be firm and if soft enough to root rapidly removal of only a few lower leaves is necessary. Treatment with growth substances and bottom heat hastens rooting. Protection with paper or cloth the first few days prevents flagging. Cuttings should be rooted in two to four weeks. *Potting the unrooted cuttings in 2½-inch pots in light soil (2 soil and 1 sand), covering with cloth, syringing frequently, is new but very successful.* It saves one operation and plants so produced are soft and vigorous. No special attention is necessary other than syringing. Planting *unrooted* cuttings in the growing bench 8x8 inches is not recommended because of unsatisfactory results unless very closely watched. Do not propagate too early or the plants will become hardened between the time they are stuck as cuttings in the propagation house and the day they are planted in the bench.

Buying Cuttings

The trend now is to buy cuttings every year instead of attempting to carry over stock plants. There are a number of valid reasons for so doing. In the first place, few growers are either equipped or careful enough to produce *verticillium free* cuttings. This should be left to a specialist. Secondly, the space occupied by the stock plants could be utilized to better advantage. Third, propagation has to be done when you are busiest—in the Spring. In addition, unless stock plants are given adequate care, some varieties will die out and you will be taking cuttings from the remaining ones, even though these are not the kinds you need to grow. Your balance of colors, seasonal cut, becomes disturbed. So in general, most growers have found it more economical and satisfactory to buy cuttings as they are needed.

YOUNG PLANTS

Rooted cuttings may be potted in 2½-inch pots or placed directly in the bench where they are to be grown. The potted plants may be allowed to grow enough to take a top cutting from them, but they should never be allowed to become hard and pot bound. Loss of lower foliage upsets methods of pinching and such plants are hard and woody and require considerable time to develop new leaves.

PLANTING

The usual distance is 8x8 inches for Standards, Pompons, and Disbuds. Greater distance on strong spreading varieties may be necessary. For Standards one plant per hill is recommended, and they should be pinched to give two or three stems rather than use two or three plants per hill. The plants should be set so that there is a dish in the soil with the stem in the center of the dish. This practice facilitates spot watering, which is recommended until the plants have become established. Syringing of the foliage prevents wilting and helps the plant get started.

For early flowering the plants should be benched by the middle of May. Midseason and later varieties should be

planted from the last of May until July 1, except those which are shaded. Plants to be shaded should be benched by June 1 in order that sufficient growth is made to give necessary height before shade is applied.

WATERING

Profits or losses are often determined by the man with the hose. In the early stages spot watering around the plants is preferred to watering the entire bench. When the plants are well established, the bench should be given a heavy watering and this practice should be continued until maturity of the crop. When watering is done it should be thorough in order to insure wetting of all parts of the soil in the bench. The soil should dry in between waterings but the plants should never wilt. Steam sterilized soil requires more water than unsterilized soil. In steam sterilized soil the granulation of the soil permits rapid passage of water, and the soil in the bench is wet where the water traveled downward through the cracks and pore spaces, but the main body of the soil is not wet. *Failure of plants to grow in sterilized soil is due to insufficient watering to wet the soil and to wash through and leach out the nitrogen which often accumulates to toxic levels.*

TEMPERATURE

The Chrysanthemum is a cool season crop. During Summer maintaining a cool house is impossible, but overhead syringing helps to cool the plants. When the weather becomes cooler in the Fall a night temperature of 50 degs. F. is satisfactory. With late planting of late varieties such as Snow, which have not made sufficient growth to give the last pinch by August 1, the night temperature must be carried at 60 degs. F. until buds are visible to prevent blindness.

PINCHING

For many years the main object of pinching was to produce bushy plants with numerous stems. In some varieties such a procedure produced short stems and poor flower sprays; in others it was fairly satisfactory. In recent years the better growers have begun to pay more attention to the time of pinching to secure quality.

Dates will be found with the varieties listed.

DISBUDDING

When Standards are grown, either one, two, or three stems per plant, each stem must be disbudded to prevent development of side shoots. This should be done regularly when the shoots are long enough to be handled easily. Neglect will cause undue loss of time when operation is performed. Disbuds are handled the same as Standards. Pompons are not disbudded.

TAKING BUDS

Taking buds on Chrysanthemums is a process peculiar only to this plant. Taking the bud means allowing it to remain and removing all others. Two types of flower buds are produced on the Mum. The crown type appears first

and is distinguished by being surrounded by shoot buds which grow around it. Sometimes a second crown bud is produced. The terminal type of flower bud is always surrounded by flower buds. A safe rule to remember is never to "take" crown buds on early and midseason varieties that appear before August 15. If no crown buds appear on early or midseason varieties, the terminal bud is selected or "taken." With late varieties the terminal type of bud is always "taken."

If a crown type of bud is "taken" all vegetative or shoot buds should be removed. If it is too early to "take" the crown bud all vegetative shoots except the strongest one should be removed along with the crown bud itself. This process should not be delayed too long or crooked stems will result from the failure of the strongest shoot to grow straight. On terminal buds, all the side flower buds are removed when large enough to rub out.

SHADING

Since the Chrysanthemum is a short-day plant, the use of black cloth artificially shortens the day and induces earliness of flowering. Standards should be pinched 30-35 days before shading and they should be at least 15-18 inches high before shading. Pompons may be pinched just before shading. The black cloth should completely enclose the plants and is applied at 5 p.m. and removed at 7 to 7:30 a.m. Nothing is to be gained by allowing the cloth to remain over the plants for a longer period of time. Double duty may be secured by shading one bed beginning at 3 p.m. and leaving it on until sundown and then moving the cloth to another bed and removing it at 9 a.m. The cloth may be applied every night except one for each week, but continuous shading is preferred. When the buds of Standards are the size of a nickel or when Pompons show color, the use of black cloth may be discontinued. On the early varieties, flowers may be expected approximately 8 weeks after shading. Since Chrysanthemums set their buds normally around September 1 there is no point in beginning to apply black cloth after this date. The black cloth is supported by wires over the plants.

LIGHTING

To delay flowering, Chrysanthemums may be lighted. Reducing the house temperature to delay flowering impairs quality. Not all varieties respond favorably to light, and if carelessly and improperly used it may injure the crop. The last pinch should be made 10 days later than normal to prevent long necks and imperfect flowers. There are several methods of applying light. One is to begin applying light August 10-15 and run for 2½ hours each night beginning after dark. Use 40-watt bulbs, 3 feet above the tops of the plants, spaced 4 feet apart. Continue lighting for approximately the same number of days as is wished to delay flowering. To prevent heavy, clubby growth, keep the nitrogen level low and raise the temperature to 55 degs. F.

To spread the crop over a longer period, but not actually delay flowering, lights are applied after the buds are the size of a nickel. Use the same spacing and duration of light as previously described.

PEST CONTROL

Chrysanthemums are attacked by many insects and allied pests and these must be kept in check if high quality is expected.

Red spider attacks both leaves and flowers. When on the flowers very little can be done to control them without damaging the flowers. Use Hexatox or bombs.

Aphids are controlled by cyanide or nicotine fumigations. Nicofume at 1-400 is also effective with soap at 1 cubic inch per gallon or Santomerse Spreader at 1-1200 are used.

Thrips are troublesome, as they come in from weeds outside the greenhouse or under the bench. D.D.T. is very effective. A fine mist produced by high pressure should be applied to the upper surface of the foliage to thoroughly cover it.

Leaf roller must be controlled early before the foliage becomes too thick to cover it easily with insecticide. A dust of 15 parts lead arsenate and 85 parts sulphur is very good. Lead arsenate 2 lbs., and lime 2 lbs., in 50 gallons of water is useful before the foliage staining is objectionable.

Midge. Nicofume liquid at 1-400 with Santomerse Spreader is effective and is applied every third night for 7-8 applications. Do not apply the spray before 10 p.m. as the midge do not appear until night.

Foliar nematode is controlled by Nicofume liquid at 1-200 with Santomerse Spreader. The material must penetrate the leaf to kill the eelworm. Avoid water on the foliage as they spread through it.

Mealy bugs should be sprayed with Hexatox.

Soil pests including nematodes, symphylids, and grubs, are controlled by steam sterilization before planting. Once in the bench after planting, use Soilene.

Sodium selenate or P-40 are being recommended for the control of red spider, thrips, aphids and foliar nematodes. It is very worthy of trial and if used according to directions should eliminate all spraying and fumigation for the pests named above.

DISEASES

The most serious of these is *verticillium wilt*. This disease organism lives within the plant and no spray applied to the outside or any material placed on the soil will do any good. Short tip cuttings should be taken when the plants are growing rapidly or the cuttings purchased from reliable sources. All soil, pots and tools should be steam sterilized.

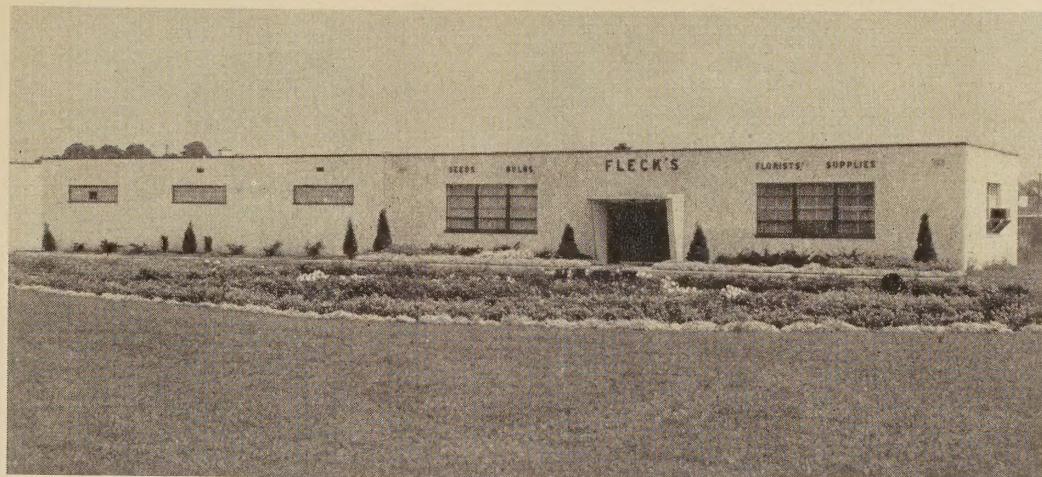
Stem rot is caused by infection in the propagation bench, too deep planting, or poor drainage.

Septoria spot can be controlled by spraying with 1 lb. of Ferradow and Santomerse Spreader at 1-1200. Dithane Z78 is satisfactory but stains the foliage.

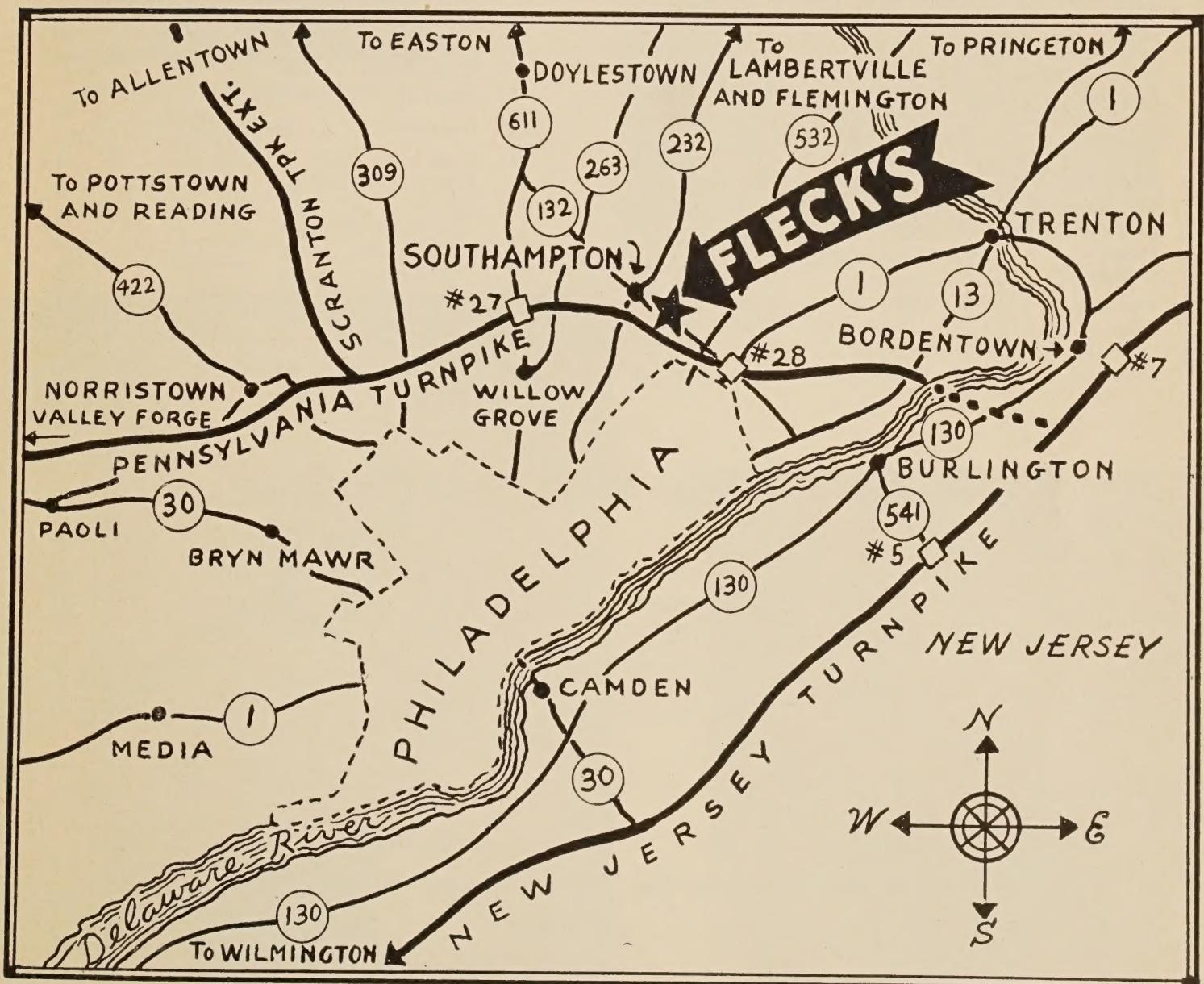
FLOWERS

Cutting of flowers before they are fully developed impairs the keeping quality. When Standards have expanded and the center is no longer green, they are ready. Pompons are ready when a majority of flowers are open. Pompons are usually sold in 9-oz. bunches.

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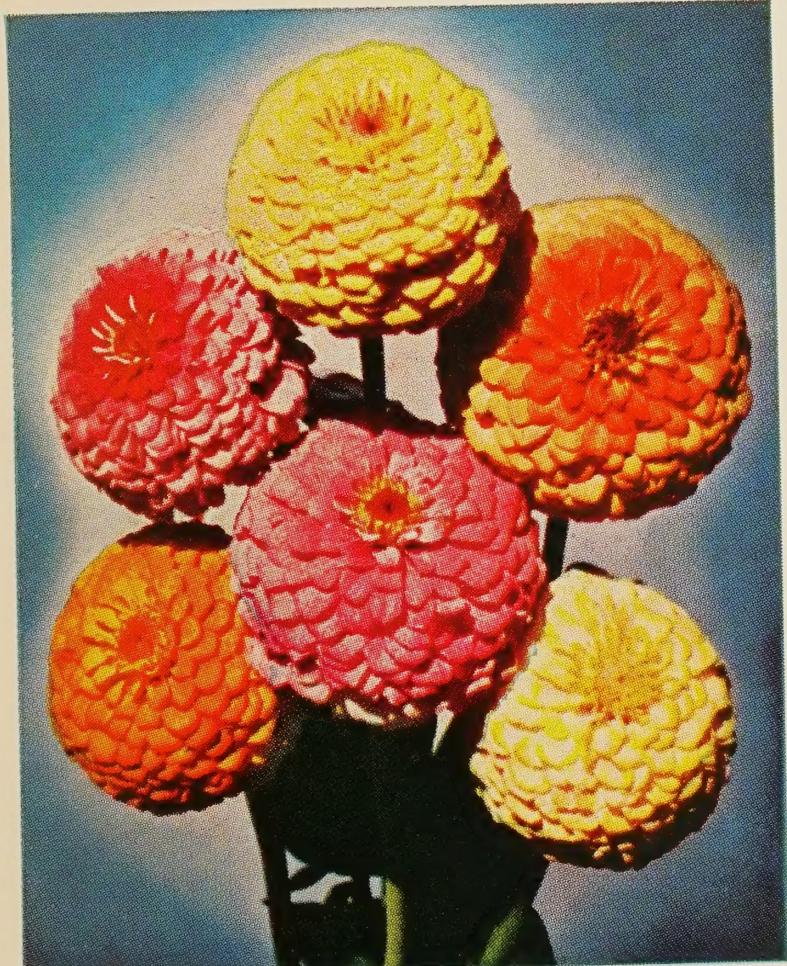
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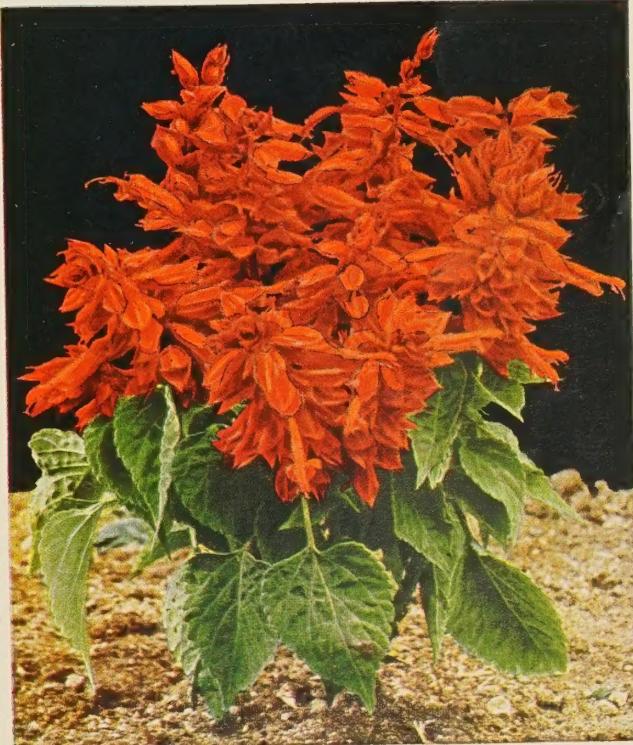
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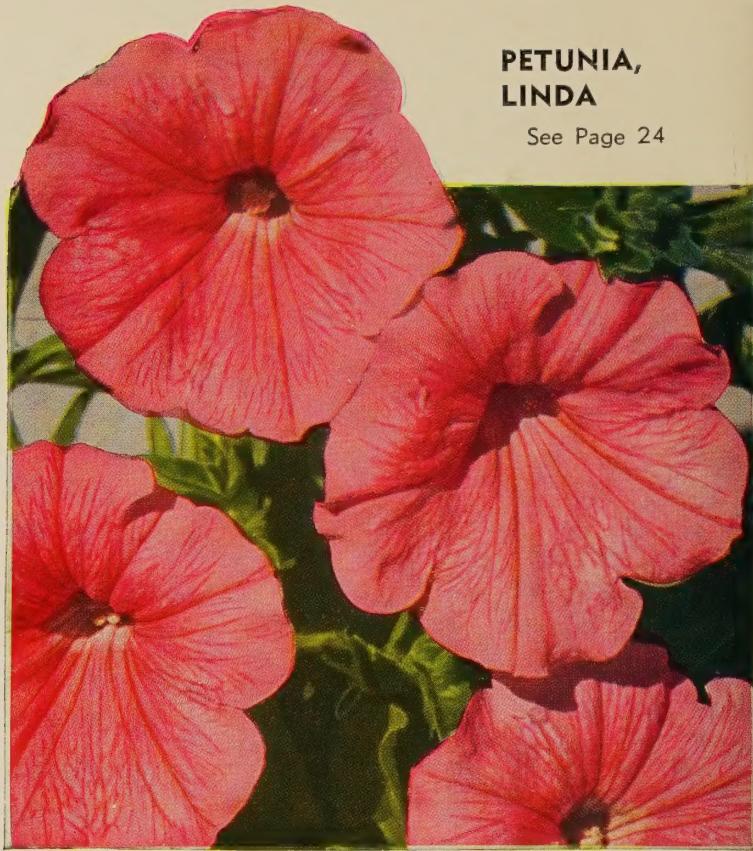
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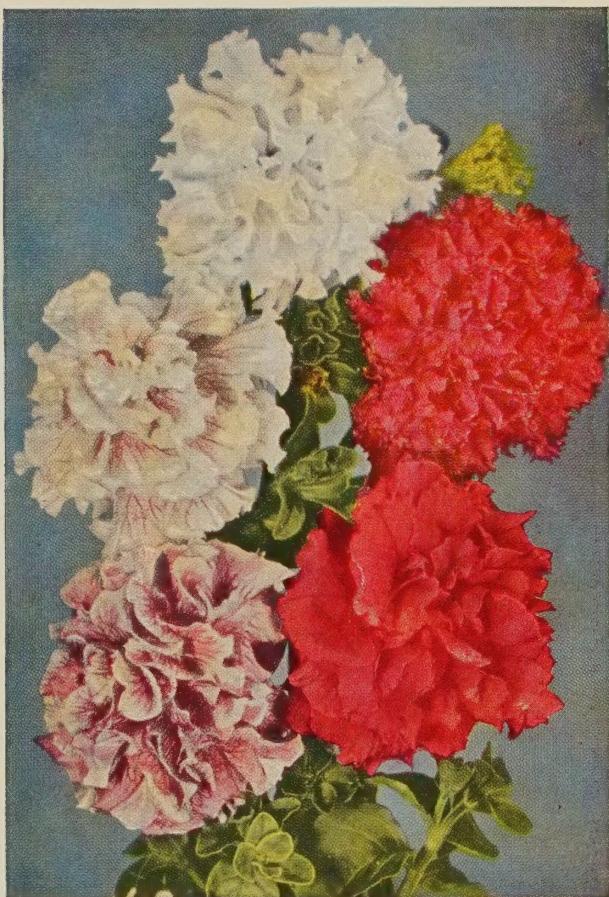
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